

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ONLINE SEARCH REQUEST FORM

USER D. DAUS SERIAL NUMBER 714441

ART UNIT 122 PHONE 4720 DATE 18 Sept 91

Please give a detailed statement of requirements. Describe as specifically as possible the subject matter to be searched. Define any terms that may have special meaning. Give examples or relevant citations, authors, or keywords, if known.

You may include a copy of the broadest and or relevant claim(s).

please see formulas V, VI, II, III and IV
in claims.

reissue Patent 4 912 155 (Burton)

STAFF USE ONLY

311 152 430

COMPLETED 9-23-91

SEARCHER JOHN D

ONLINE TIME 42 TOTAL TIME 52

(in minutes)

NO. OF DATABASES _____

SYSTEMS

☒ CAS ONLINE

☐ DARC/QUESTEL

☐ DIALOG

☐ SDC

☐ OTHER

=> fir reg

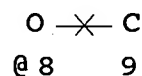
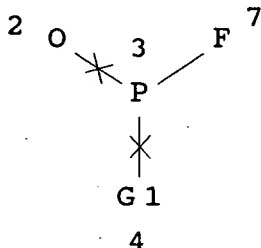
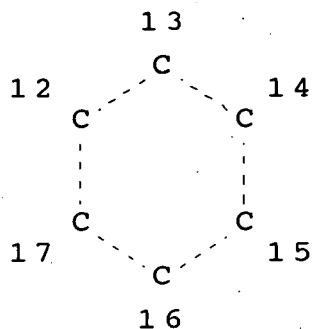
FILE 'REGISTRY' ENTERED AT 12:02:32 ON 23 SEP 91
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

STRUCTURE FILE UPDATES: HIGHEST RN 136314-55-1

DICTIONARY FILE UPDATES: 22 SEP 91 (910922/ED) HIGHEST RN 136292-67-6

=> d que 114

L3 STR



C @ 11

VAR G1=F/8/11

NODE ATTRIBUTES:

NSPEC IS RC AT 9

NSPEC IS RC AT 11

CONNECT IS M2 RC AT 2

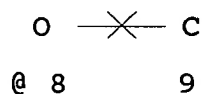
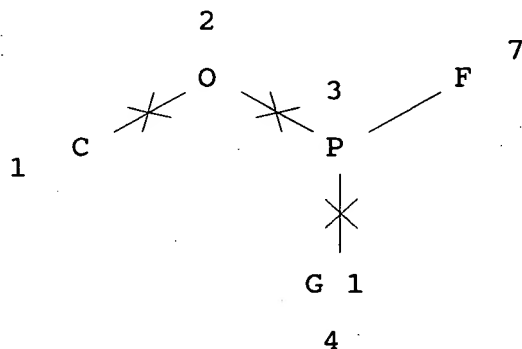
CONNECT IS E3 RC AT 3

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

L5 STR



C @ 11

VAR G1=F/8/11

NODE ATTRIBUTES:

NSPEC IS R AT 1

NSPEC IS RC AT 9

NSPEC IS RC AT 11

CONNECT IS E3 RC AT 3

GRAPH ATTRIBUTES:

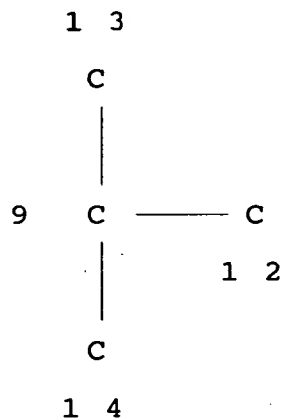
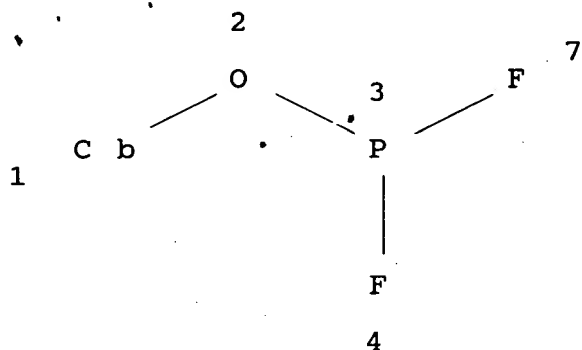
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

L6 90 SEA SSS FUL L5

L7 STR

NARROWED

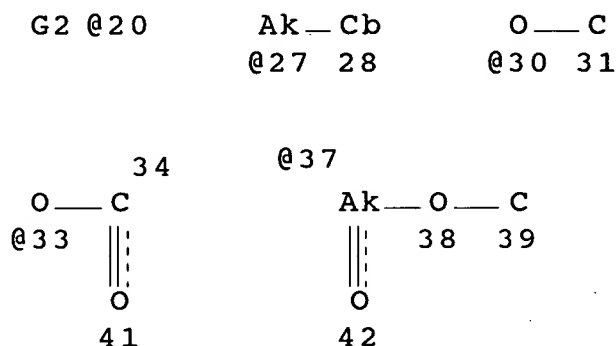
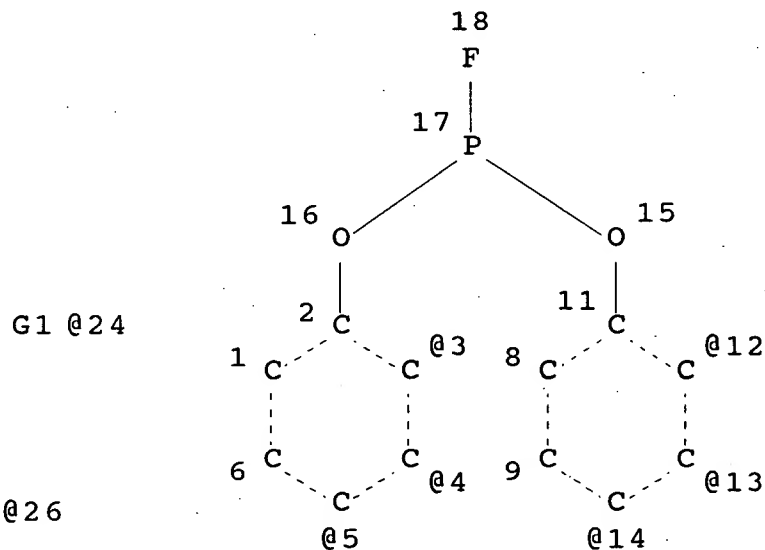


NODE ATTRIBUTES:

NSPEC IS RC AT 9
CONNECT IS E3 RC AT 3
CONNECT IS M4 RC AT 9
GGCAT IS UNS AT 1

GRAPH ATTRIBUTES:

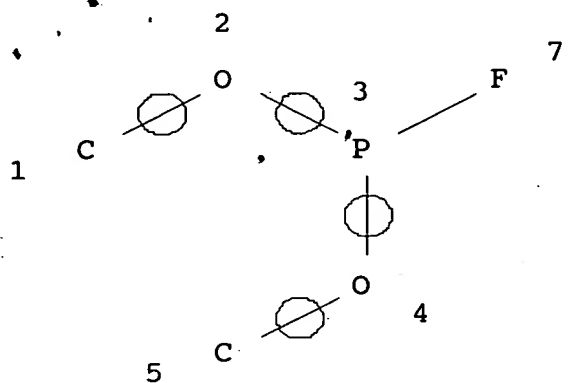
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9
L8 STR



VAR G1=26/27/30/33/37/OH/CB/X
VAR G2=26/27/30/33/37/OH/CB/X
VPA 24-3/4/5 U
VPA 20-12/13/14 U
NODE ATTRIBUTES:
GGCAT IS BRA AT 26

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 30
L9 STR



NODE ATTRIBUTES:

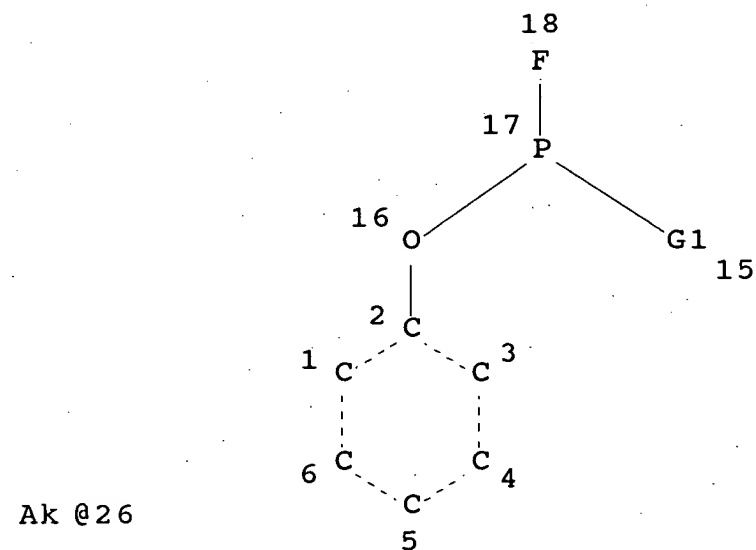
NSPEC IS R AT 1
NSPEC IS R AT 5

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 6

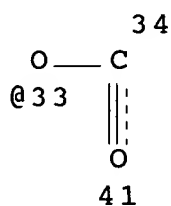
L10 STR



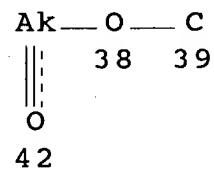
Ak @26

Ak—Cb
@27 28

O—C
@30 31



@37



VAR G1=26/27/30/33/37/OH/CB/X

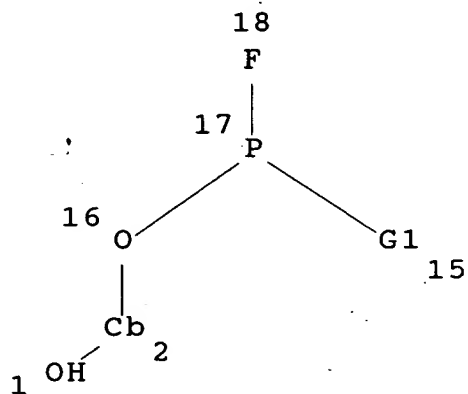
NODE ATTRIBUTES: NONE

GRAPH ATTRIBUTES:

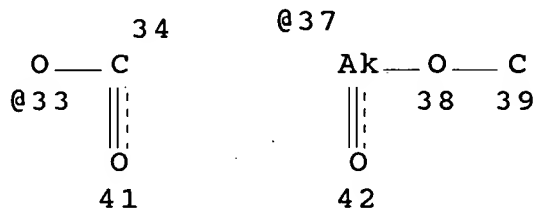
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 22

L11 STR



Ak @26



VAR G1=26/27/30/33/37/OH/CB/X
NODE ATTRIBUTES: NONE

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

L14 52 SEA SUB=L6 SSS FUL (L7 OR L8 OR L9 OR L10 OR L11) AND L3

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=> d 1-52 sub can l14

*Couldn't narrow any further therefore I
printed all compounds and all citations.*

L14 ANSWER 1 OF 52

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 134016-96-9

CN Dibenzo[d,f][1,3,2]dioxaphosphopin, 2,10-di-sec-eicosyl-6-fluoro-
(9CI) (CA INDEX NAME)

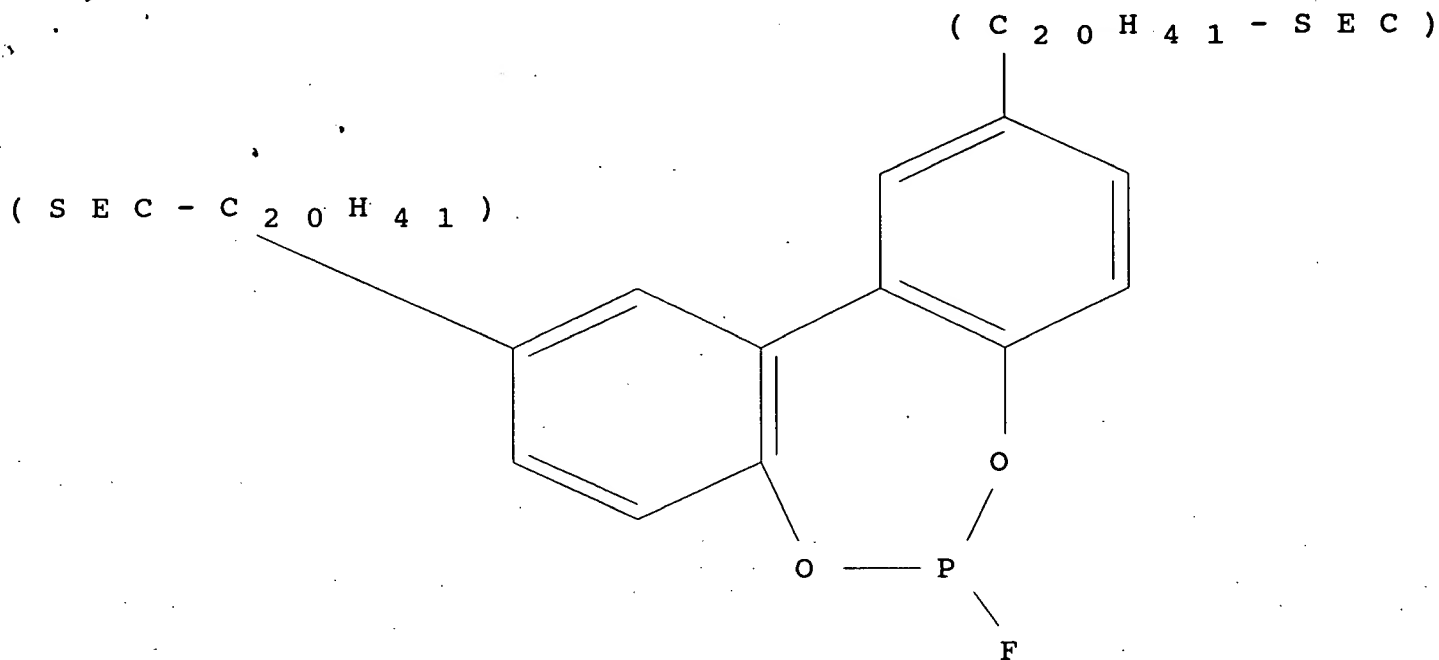
MF C52 H88 F O2 P

CI IDS

SR CA

LC CA

STE 8:ID,SEC,SEC



2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(26):248566a

REFERENCE 2: P CA114(24):230102m

L14 ANSWER 2 OF 52

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 133949-90-3

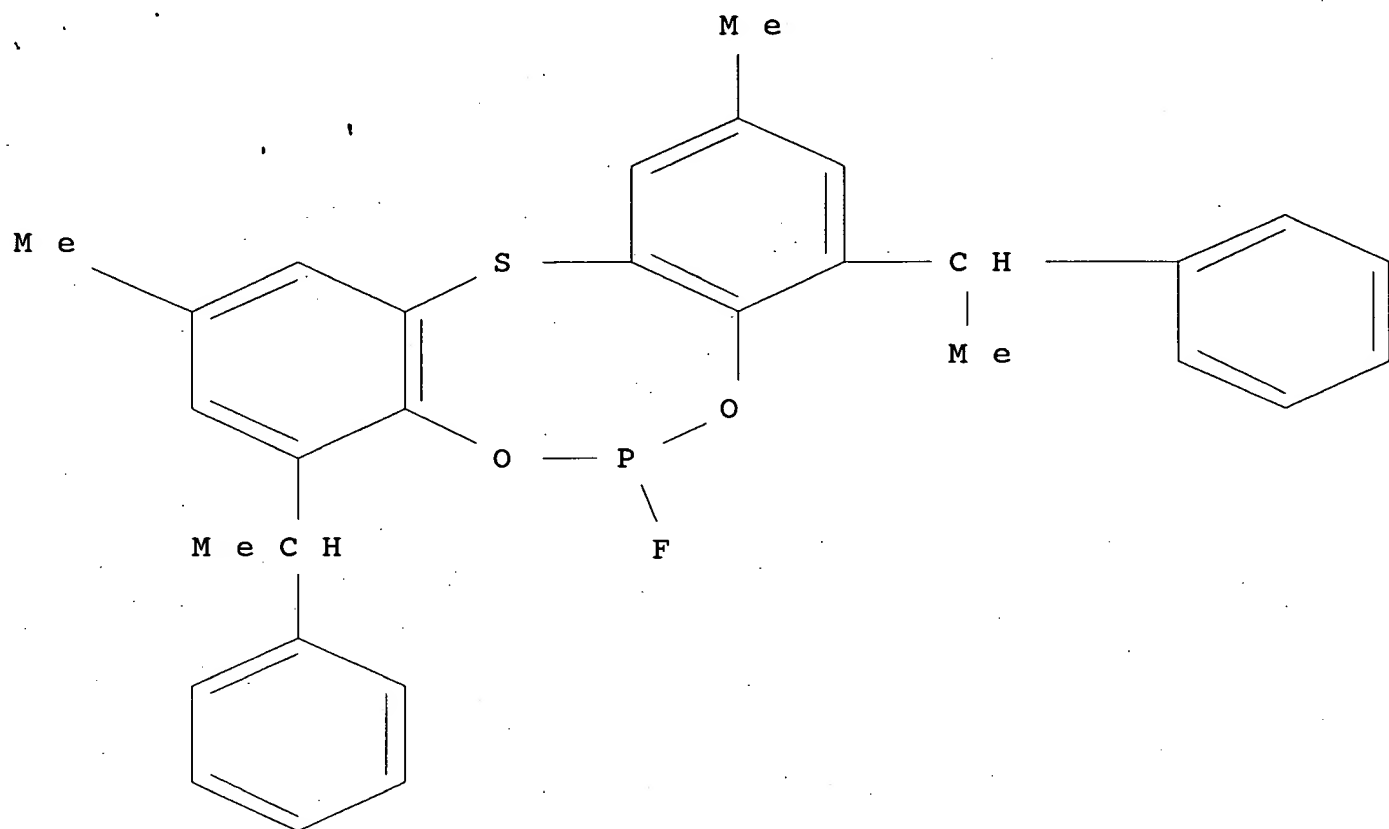
CN Dibenzo[d,g][1,3,6,2]dioxathiaphosphocin, 6-fluoro-2,10-dimethyl-4,8-bis(1-phenylethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H28 F O2 P S

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(26):248566a

L14 ANSWER 3 OF 52

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RN 133949-89-0

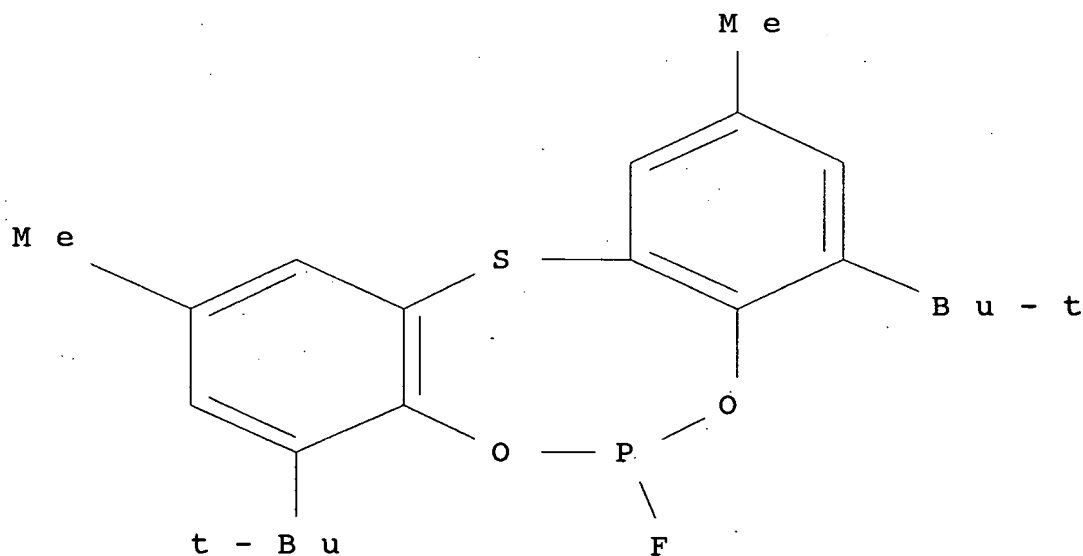
CN Dibenzo[d,g][1,3,6,2]dioxathiaphosphocin, 4,8-bis(1,1-dimethylethyl)-6-fluoro-2,10-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C22 H28 F O2 P S

SR CA

LC CA



2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(6):51133w
REFERENCE 2: P CA114(26):248566a

L14 ANSWER 4 OF 52

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 133949-88-9

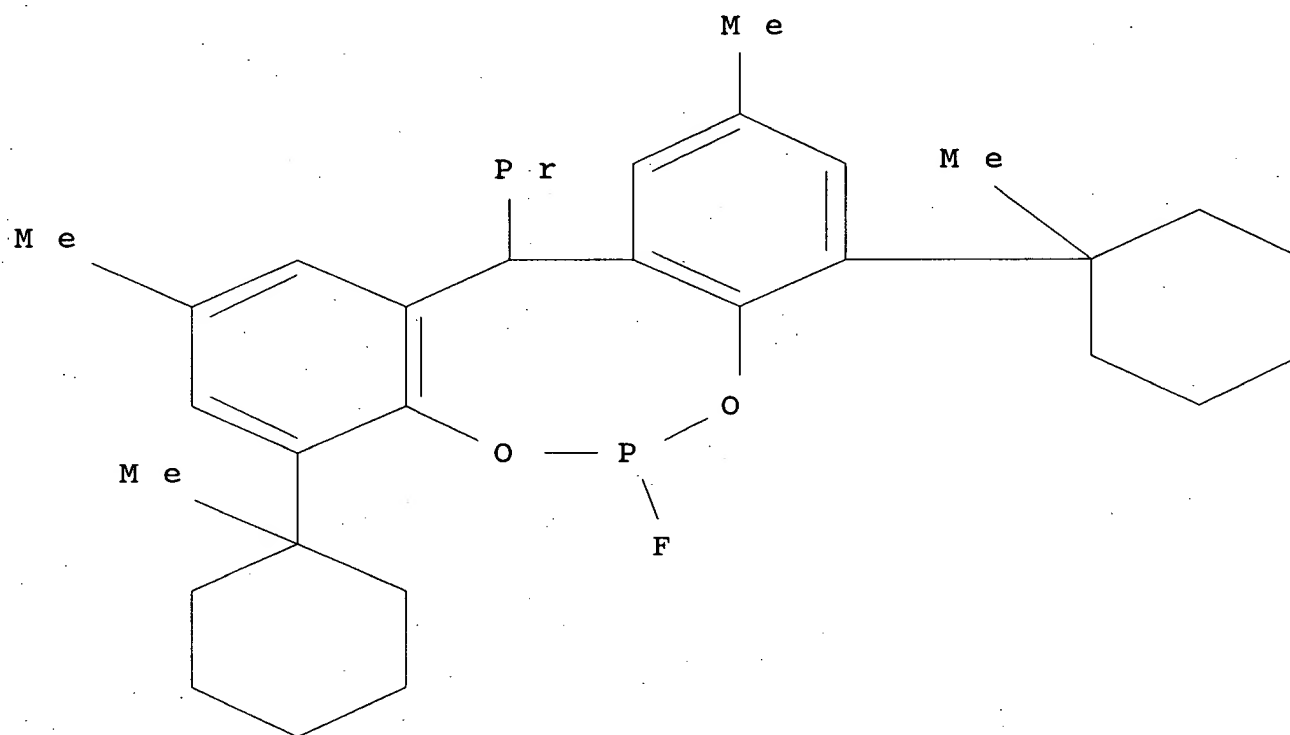
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 6-fluoro-2,10-dimethyl-4,8-bis(1-methylcyclohexyl)-12-propyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C32 H44 F O2 P

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(26):248566a

L14 ANSWER 5 OF 52

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RN 133949-87-8

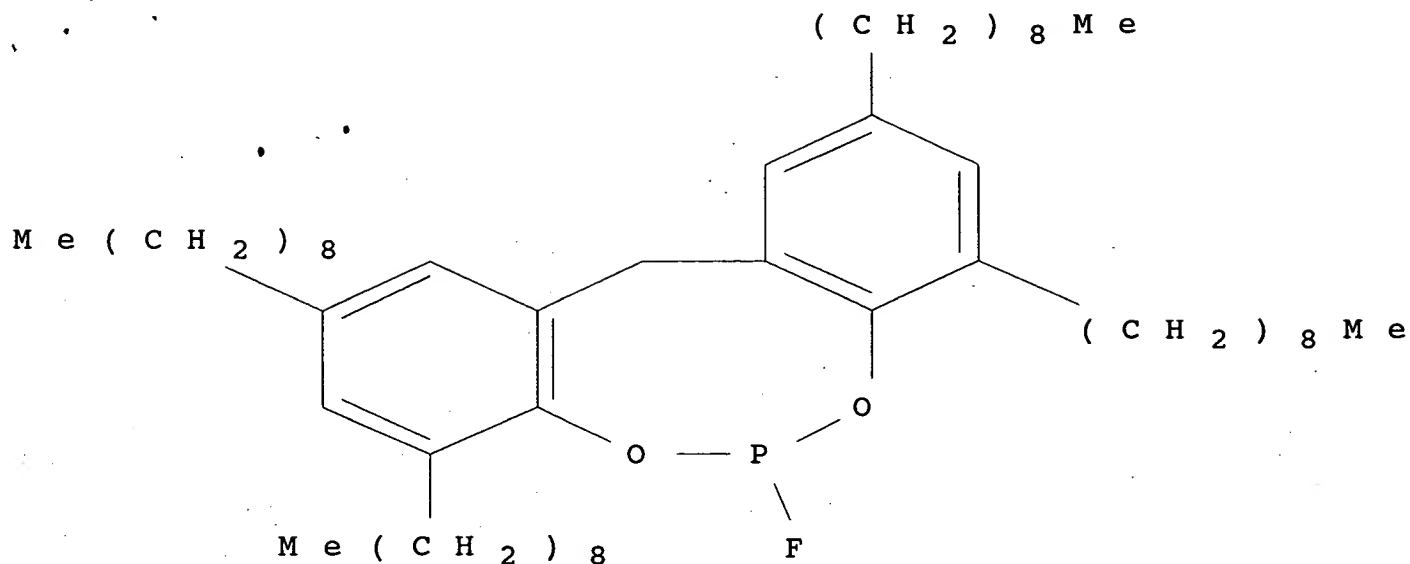
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 6-fluoro-2,4,8,10-tetranonyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C49 H82 F O2 P

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(26):248566a

L14 ANSWER 6 OF 52

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RN 133940-41-7

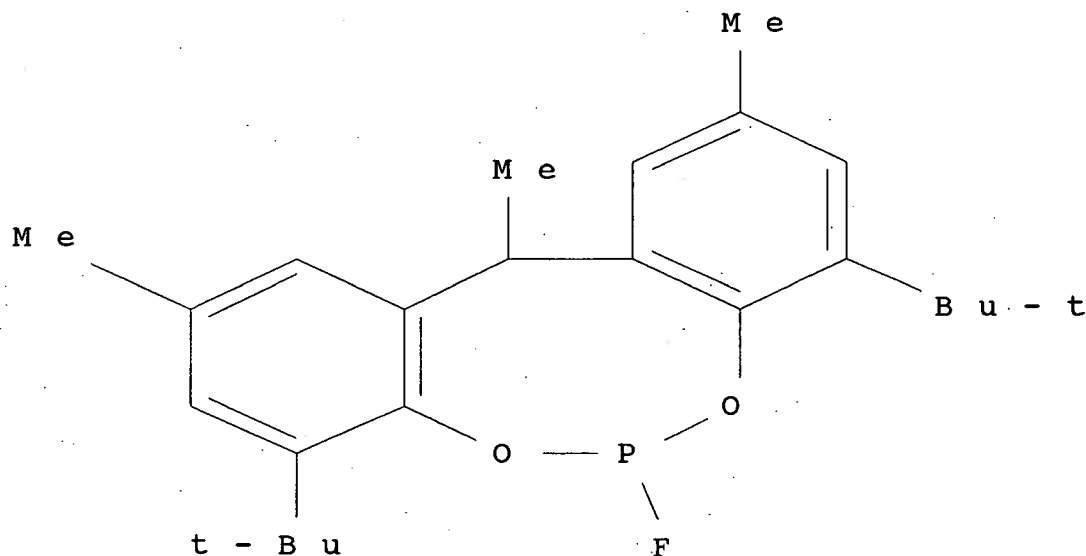
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 4,8-bis(1,1-dimethylethyl)-6-fluoro-2,10,12-trimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H32 F O2 P

SR CA

LC CA



3 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(6):51133w

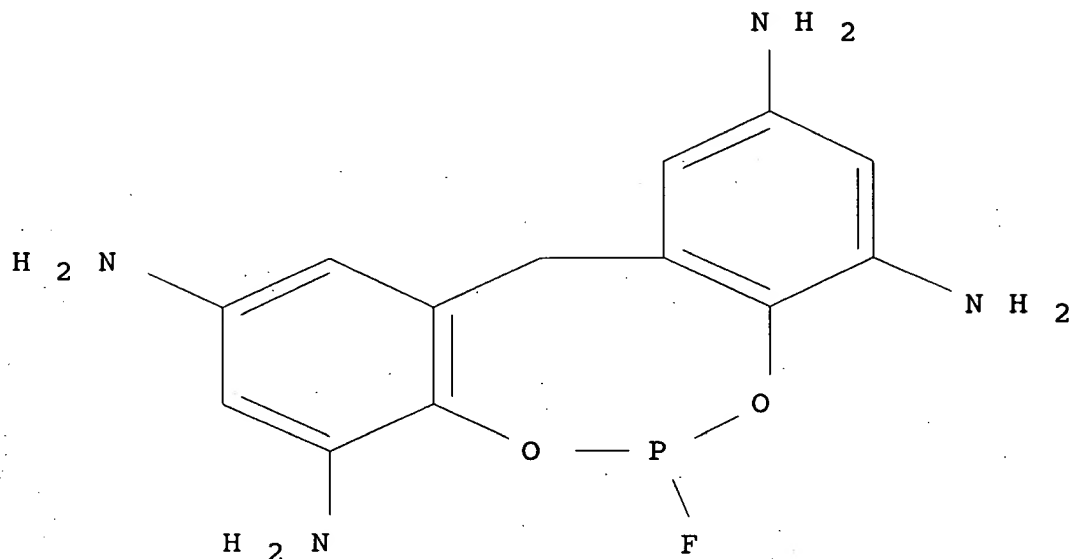
REFERENCE 2: P CA114(26):248566a

REFERENCE 3: P CA114(24):230102m

L14 ANSWER 7 OF 52

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RN 133940-40-6
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin-2,4,8,10-tetramine, 6-fluoro-
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H14 F N4 O2 P
 SR CA
 LC CA



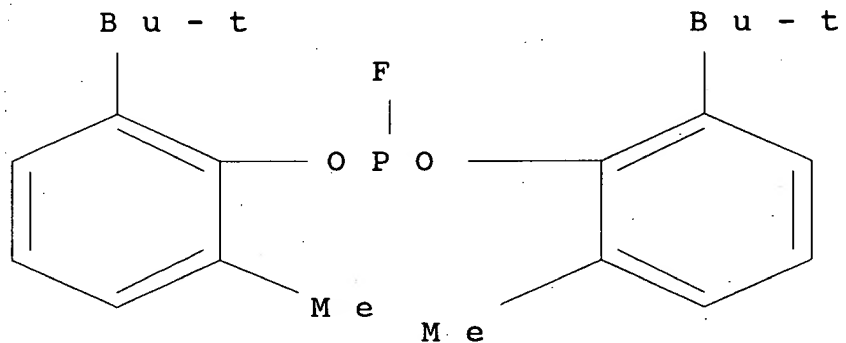
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(24):230102m

L14 ANSWER 8 OF 52

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RN 132219-44-4
 CN Phosphorofluoridous acid, bis[2-(1,1-dimethylethyl)-6-methylphenyl]
 ester (9CI) (CA INDEX NAME)
 MF C22 H30 F O2 P
 SR CA
 LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

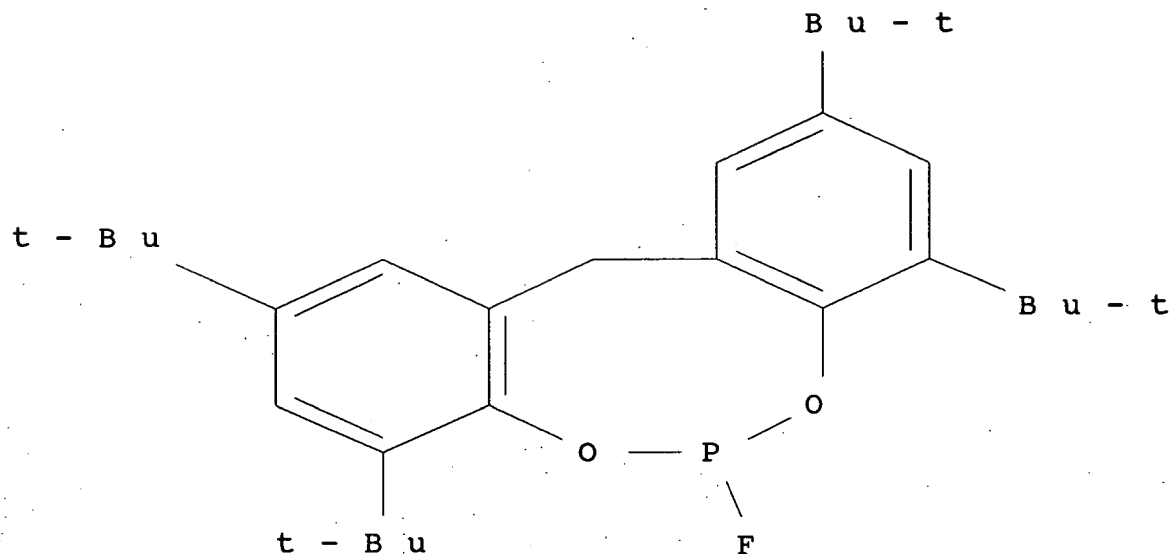
REFERENCE 1: P CA114(15):143115z

L14 ANSWER 9 OF 52

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RN 122757-26-0
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-
 dimethylethyl)-6-fluoro- (9CI) (CA INDEX NAME)

CN 2,2'-Methylenebis(4,6-di-tert-butylphenyl)fluorophosphite
 FS 3D CONCORD
 MF C29 H42 F O2 P
 SR CA
 LC CA



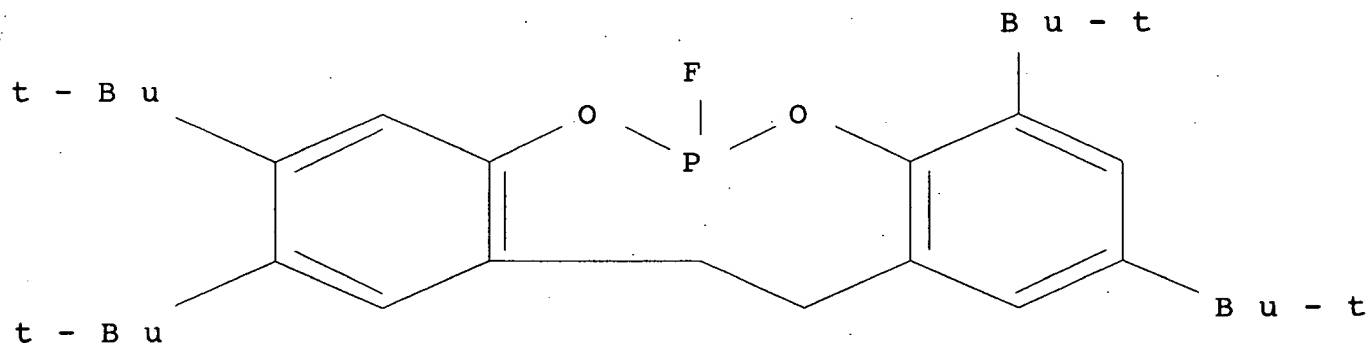
5 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(6):51133w
 REFERENCE 2: P CA114(26):248566a
 REFERENCE 3: P CA114(24):230102m
 REFERENCE 4: P CA114(15):143115z
 REFERENCE 5: P CA111(16):135394n

L14 ANSWER 10 OF 52

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RN 122757-25-9
 CN Dibenzo[d,h][1,3,2]dioxaphosphonin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-fluoro-12,13-dihydro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C30 H44 F O2 P
 SR CA
 LC CA



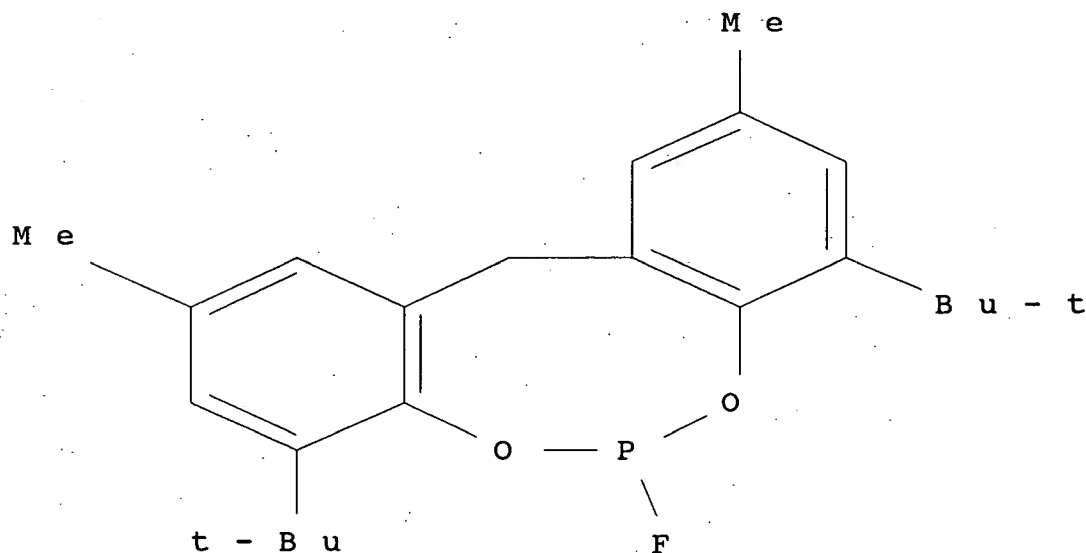
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(16):135394n

L14 ANSWER 11 OF 52

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RN 119735-74-9
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 4,8-bis(1,1-dimethylethyl)-6-fluoro-2,10-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 DR 133940-39-3
 MF C23 H30 F O2 P
 SR CA
 LC CA

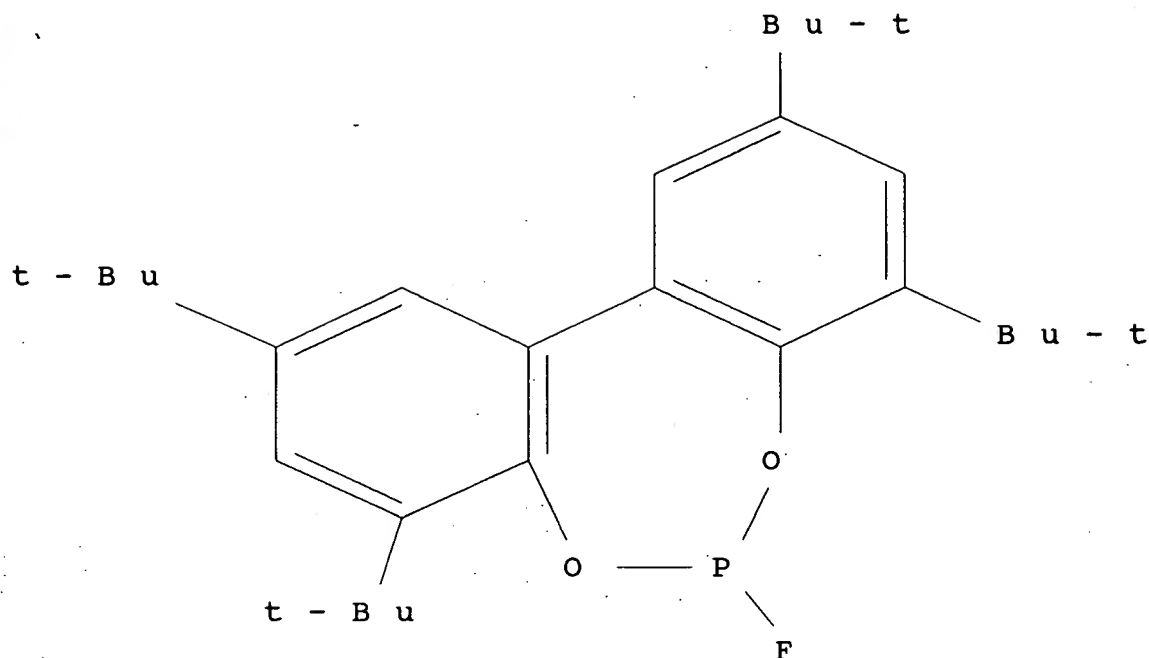


3 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(6):51133w
 REFERENCE 2: P CA114(26):248566a
 REFERENCE 3: P CA110(16):136356t

L14 ANSWER 12 OF 52
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RN 119735-73-8
 CN Dibenzo[d,f][1,3,2]dioxaphosphopin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-fluoro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C28 H40 F O2 P
 SR CA
 LC CA



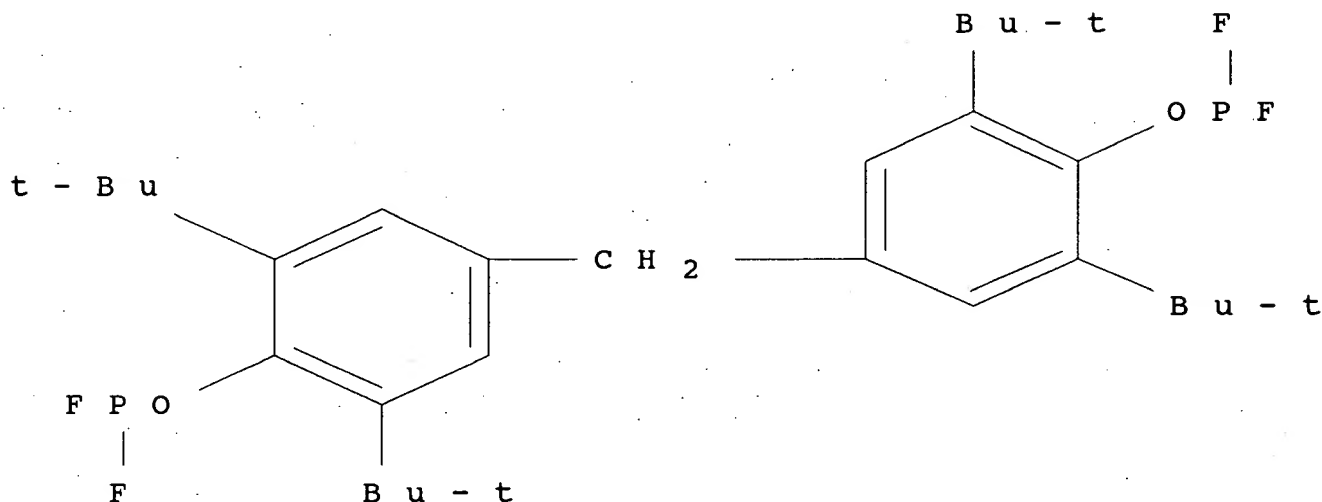
5 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(6):51133w
 REFERENCE 2: P CA114(26):248566a
 REFERENCE 3: P CA114(24):230102m
 REFERENCE 4: P CA114(15):143115z
 REFERENCE 5: P CA110(16):136356t

L14 ANSWER 13 OF 52

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RN 119735-72-7
 CN Phosphorodifluoridous acid, methylenebis[2,6-bis(1,1-dimethylethyl)-4,1-phenylene] ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C29 H42 F4 O2 P2
 SR CA
 LC CA



2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(15):143115z
 REFERENCE 2: P CA110(16):136356t

L14 ANSWER 14 OF 52

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RN 119735-71-6

CN Benzenepropanoic acid, 4,4'-[(fluorophosphinidene)bis(oxy)]bis[3,5-bis(1,1-dimethylethyl)-, dioctadecyl ester (9CI) (CA INDEX NAME)

MF C70 H122 F O6 P

SR CA

LC CA

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA110(16):136356t

L14 ANSWER 15 OF 52

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RN 119735-70-5

CN Phosphorofluoridous acid, bis[2,4-bis(1,1-dimethylethyl)phenyl] ester (9CI) (CA INDEX NAME)

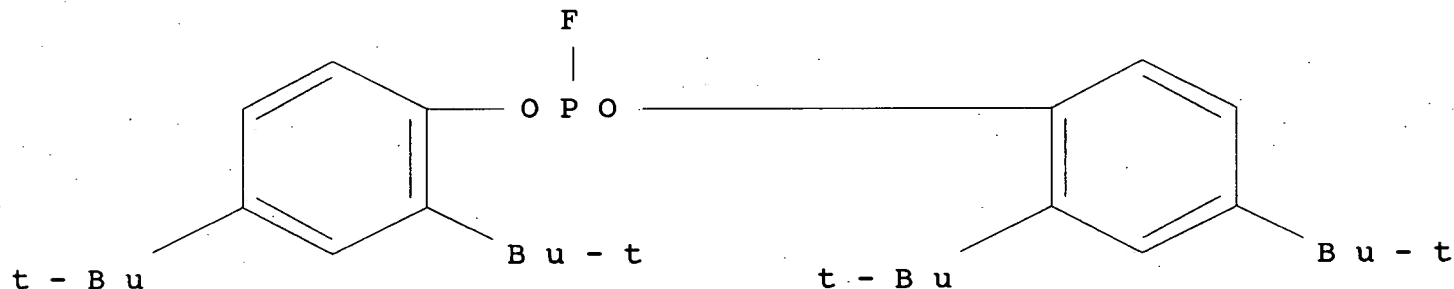
CN Bis(2,4-di-tert-butylphenyl) fluorophosphite

FS 3D CONCORD

MF C28 H42 F O2 P

SR CA

LC CA



3 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(15):143115z

REFERENCE 2: P CA111(16):135394n

REFERENCE 3: P CA110(16):136356t

L14 ANSWER 16 OF 52

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RN 119735-69-2

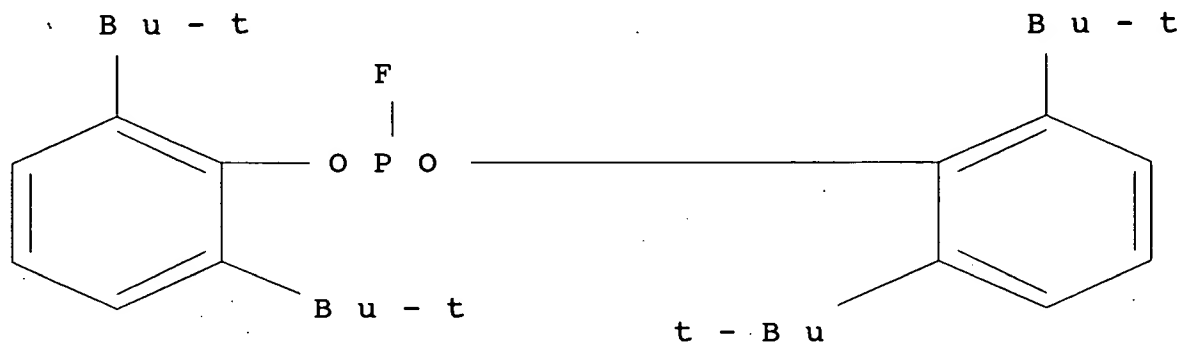
CN Phosphorofluoridous acid, bis[2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI) (CA INDEX NAME)

CN Bis(2,6-di-tert-butylphenyl) fluorophosphite

MF C28 H42 F O2 P

SR CA

LC CA



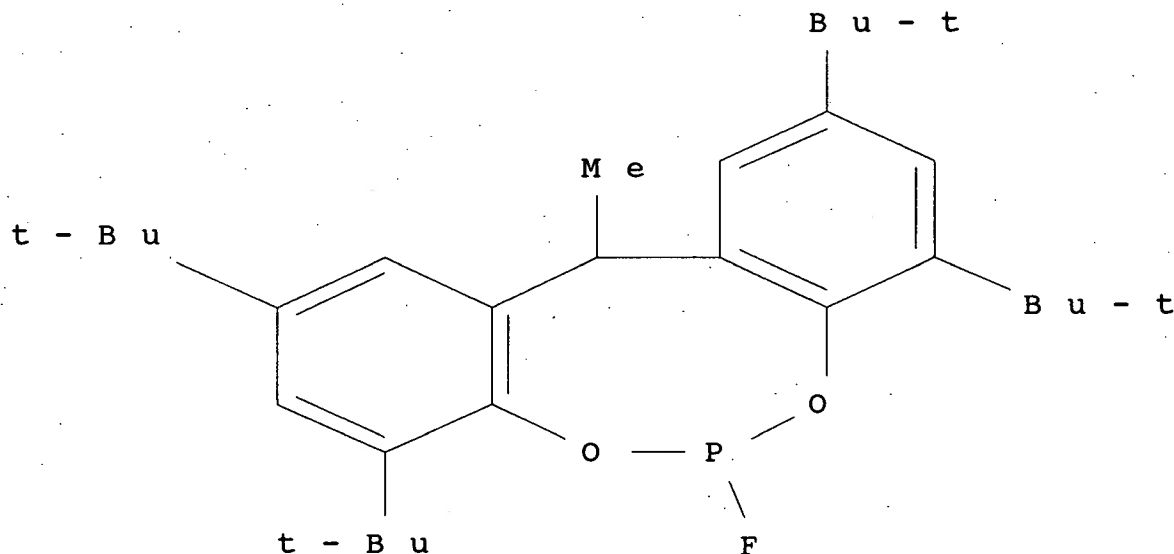
2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(16):135394n
 REFERENCE 2: P CA110(16):136356t

L14 ANSWER 17 OF 52

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RN 118337-09-0
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-fluoro-12-methyl- (9CI) (CA INDEX NAME)
 CN X 398
 FS 3D CONCORD
 MF C30 H44 F O2 P
 SR CAS Registry Services
 LC CA

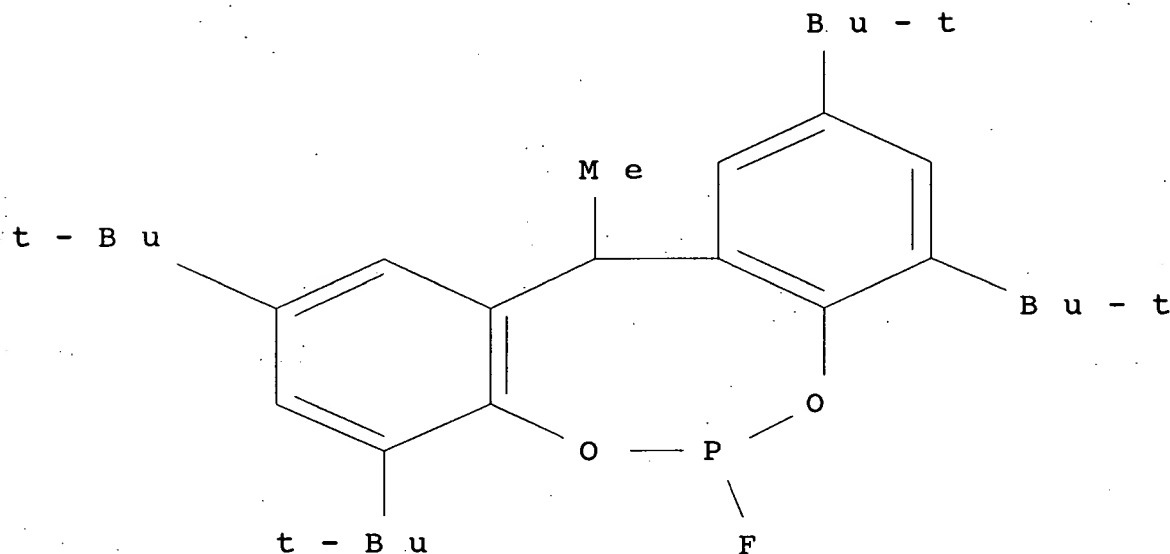


10 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(6):51133w
 REFERENCE 2: P CA114(26):248566a
 REFERENCE 3: P CA114(24):230313f
 REFERENCE 4: P CA114(10):83235b
 REFERENCE 5: P CA114(10):83234a
 REFERENCE 6: P CA113(26):232774k
 REFERENCE 7: P CA113(10):79882x
 REFERENCE 8: P CA113(7):59535h
 REFERENCE 9: P CA111(23):214703r
 REFERENCE 10: P CA110(16):136356t

L14 ANSWER 18 OF 52

RN 116954-21-3
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-fluoro-12-methyl-, trans- (9CI) (CA INDEX NAME)
 MF C30 H44 F O2 P
 SR CAS Registry Services
 LC CA
 STE 2:TRANS



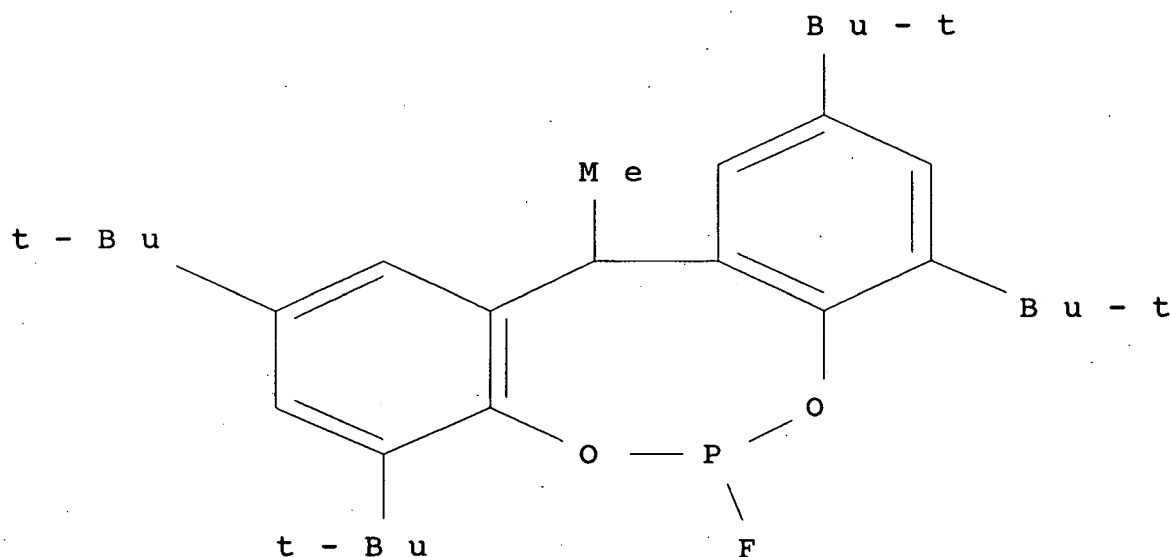
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(15):143115z

L14 ANSWER 19 OF 52

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RN 116954-20-2
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-fluoro-12-methyl-, cis- (9CI) (CA INDEX NAME)
 MF C30 H44 F O2 P
 SR CAS Registry Services
 LC CA
 STE 2:CIS



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(15):143115z

L14 ANSWER 20 OF 52

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RN 112518-26-0

CN Phosphorodifluoridous acid, 1,3-naphthalenediyl ester (9CI) (CA INDEX NAME)

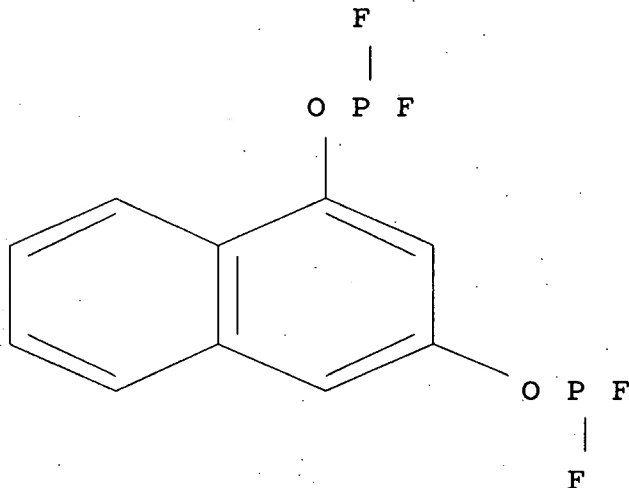
CN 1,3-Bis(difluorophosphinoxy)naphthalene

FS 3D CONCORD

MF C10 H6 F4 O2 P2

SR CA

LC CA



1. REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 21 OF 52

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RN 112397-59-8

CN Tungsten, pentacarbonyl[1,4-phenylene bis(phosphorodifluoridite)-P]-, (OC-6-22)-(9CI) (CA INDEX NAME)

CN Phosphorodifluoridous acid, 1,4-phenylene ester, tungsten complex (9CI)

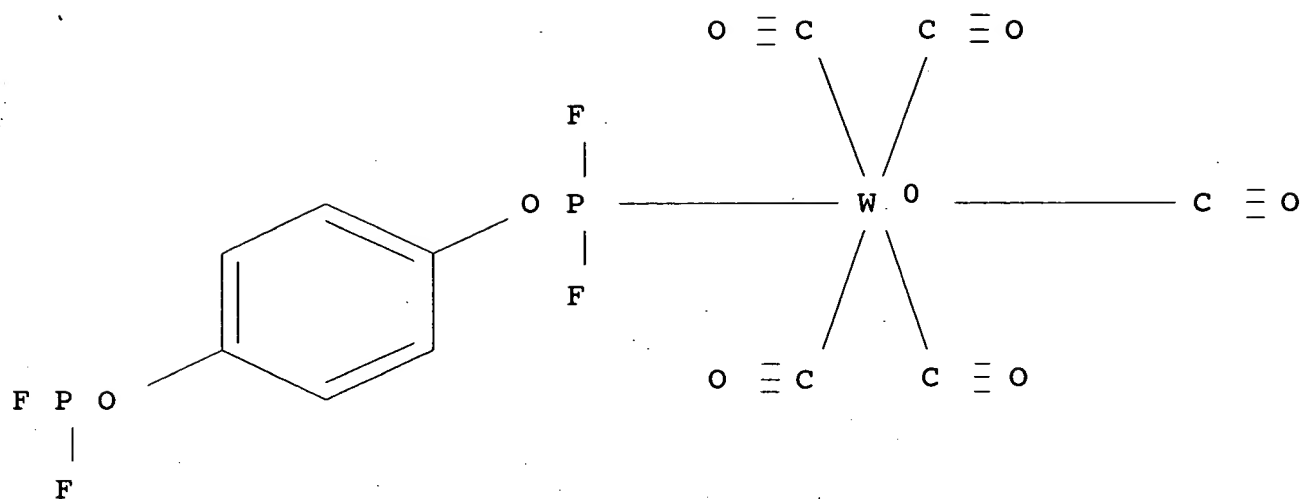
MF C11 H4 F4 O7 P2 W

CI CCS

SR CA

LC CA

STE 7:OC-6-22



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 22 OF 52

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RN 112397-58-7

CN Tungsten, pentacarbonyl[1,3-phenylene bis(phosphorodifluoridite)-P]-
, (OC-6-22)-(9CI) (CA INDEX NAME)

CN Phosphorodifluoridous acid, 1,3-phenylene ester, tungsten complex
(9CI)

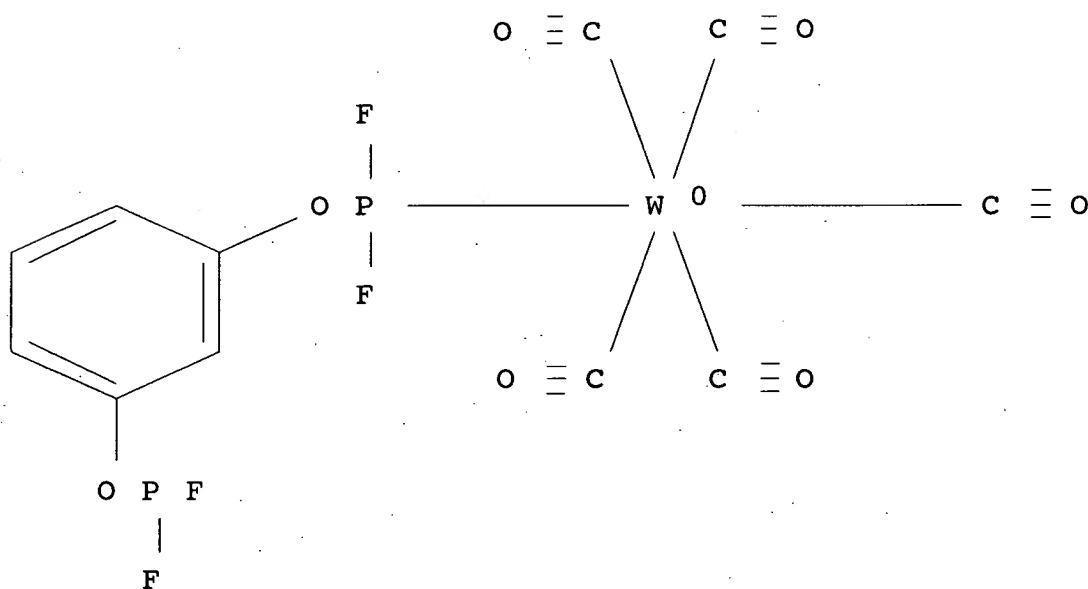
MF C11 H4 F4 O7 P2 W

CI CCS

SR CA

LC CA

STE 7:OC-6-22



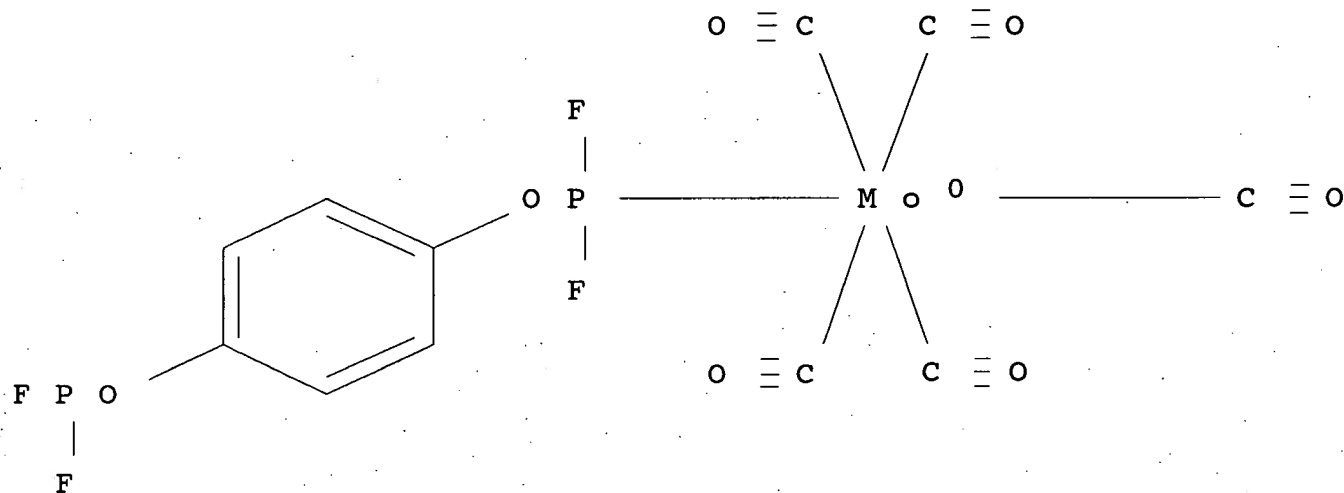
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 23 OF 52

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RN 112397-57-6
 CN Molybdenum, pentacarbonyl[1,4-phenylene bis(phosphorodifluoridite)-
 P]-, pentahydrogen (9CI) (CA INDEX NAME)
 CN Phosphorodifluoridous acid, 1,4-phenylene ester, molybdenum complex
 (9CI)
 MF C11 H4 F4 Mo O7 P2
 CI CCS
 SR CA
 LC CA
 STE 7:OC-6-22



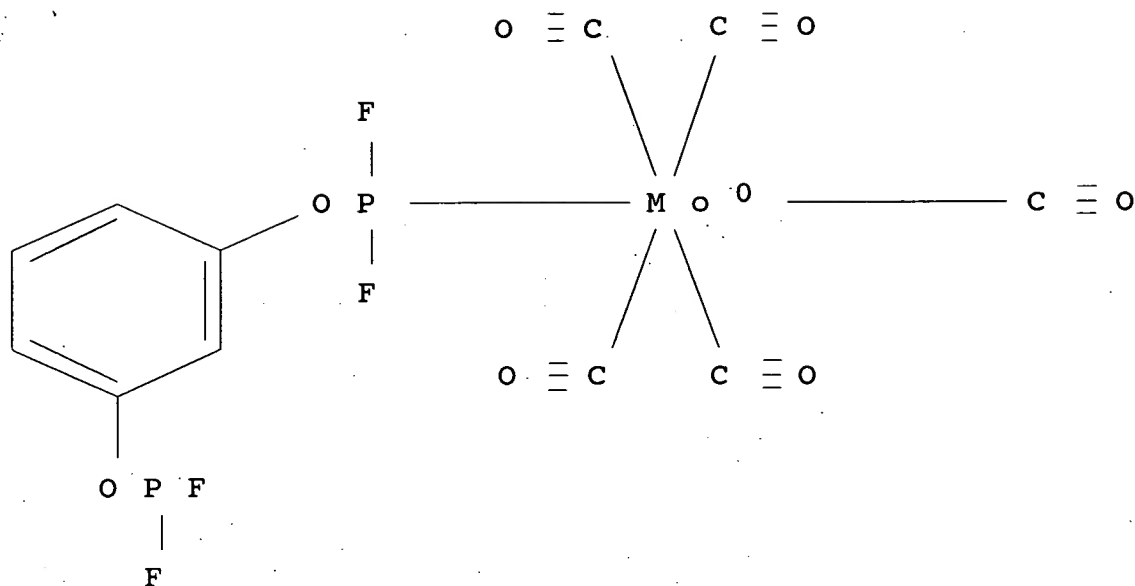
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 24 OF 52

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RN 112397-56-5
 CN Molybdenum, pentacarbonyl[1,3-phenylene bis(phosphorodifluoridite)-
 P]-, (OC-6-22)- (9CI) (CA INDEX NAME)
 CN Phosphorodifluoridous acid, 1,3-phenylene ester, molybdenum complex
 (9CI)
 MF C11 H4 F4 Mo O7 P2
 CI CCS
 SR CA
 LC CA
 STE 7:OC-6-22



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 25 OF 52

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RN 112365-90-9

CN Phosphorodifluoridous acid, 2,7-naphthalenediyl ester (9CI) (CA INDEX NAME)

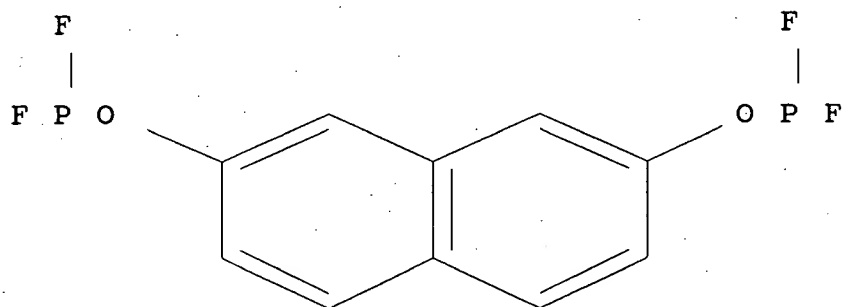
CN 2,7-Bis(difluorophosphinoxy)naphthalene

FS 3D CONCORD

MF C10 H6 F4 O2 P2

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 26 OF 52

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RN 112365-89-6

CN Phosphorodifluoridous acid, 2,6-naphthalenediyl ester (9CI) (CA INDEX NAME)

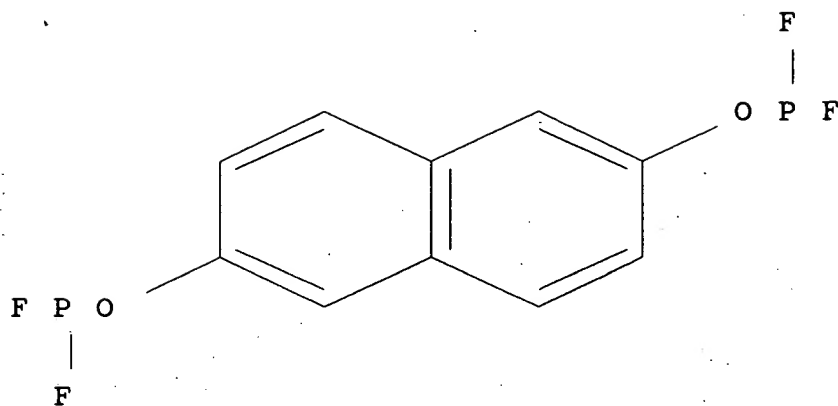
CN 2,6-Bis(difluorophosphinoxy)naphthalene

FS 3D CONCORD

MF C10 H6 F4 O2 P2

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 27 OF 52

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RN 112365-88-5

CN Phosphorodifluoridous acid, 2,3-naphthalenediyl ester (9CI) (CA INDEX NAME)

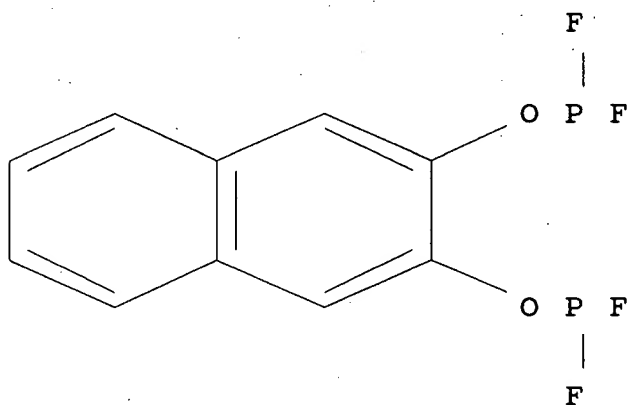
CN 2,3-Bis(difluorophosphinoxy)naphthalene

FS 3D CONCORD

MF C10 H6 F4 O2 P2

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 28 OF 52

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RN 112365-87-4

CN Phosphorodifluoridous acid, 1,7-naphthalenediyl ester (9CI) (CA INDEX NAME)

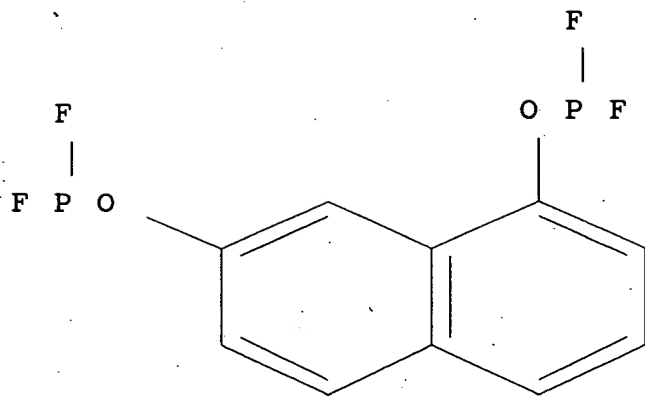
CN 1,7-Bis(difluorophosphinoxy)naphthalene

FS 3D CONCORD

MF C10 H6 F4 O2 P2

SR CA

LC CA



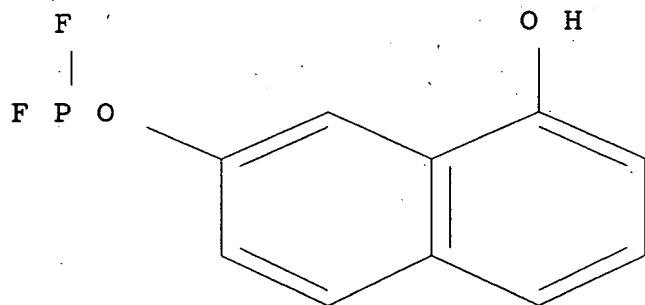
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 29 OF 52

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RN 112365-86-3
 CN Phosphorodifluoridous acid, 8-hydroxy-2-naphthalenyl ester (9CI)
 (CA INDEX NAME)
 CN 1-Hydroxy-7-(difluorophosphinoxy)naphthalene
 FS 3D CONCORD
 MF C10 H7 F2 O2 P
 SR CA
 LC CA



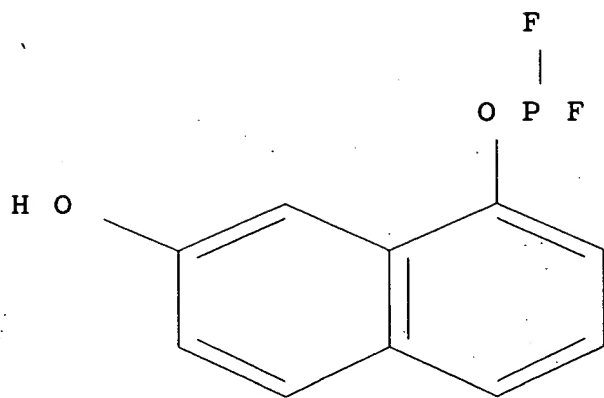
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 30 OF 52

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RN 112365-85-2
 CN Phosphorodifluoridous acid, 7-hydroxy-1-naphthalenyl ester (9CI)
 (CA INDEX NAME)
 CN 1-(Difluorophosphinoxy)-7-hydroxynaphthalene
 FS 3D CONCORD
 MF C10 H7 F2 O2 P
 SR CA
 LC CA



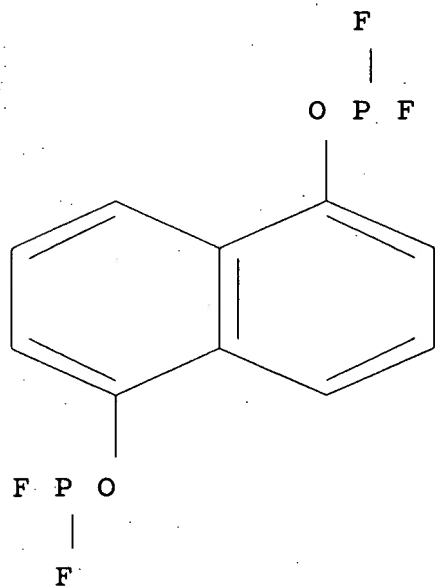
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 31 OF 52

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 112365-84-1
 CN Phosphorodifluoridous acid, 1,5-naphthalenediyl ester (9CI) (CA
 INDEX NAME)
 CN 1,5-Bis(difluorophosphinoxy)naphthalene
 FS 3D CONCORD
 MF C10 H6 F4 O2 P2
 SR CA
 LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

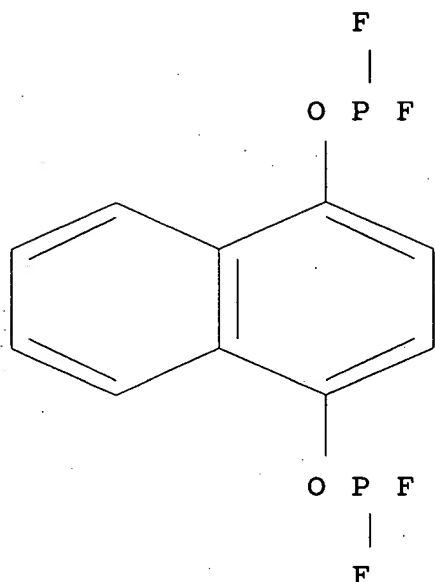
REFERENCE 1: CA108(8):67772v

L14 ANSWER 32 OF 52

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 112365-83-0
 CN Phosphorodifluoridous acid, 1,4-naphthalenediyl ester (9CI) (CA
 INDEX NAME)
 CN 1,4-Bis(difluorophosphinoxy)naphthalene
 FS 3D CONCORD

MF C10 H6 F4 O2 P2
SR CA
LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 33 OF 52

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RN 112365-82-9

CN Phosphorodifluoridous acid, 4-hydroxy-2-naphthalenyl ester (9CI)
(CA INDEX NAME)

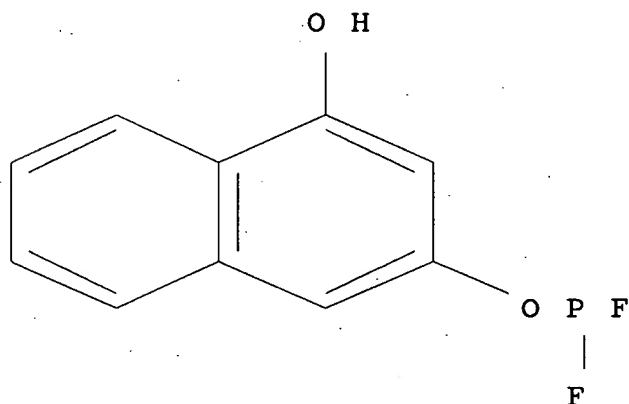
CN 1-Hydroxy-3-(difluorophosphinoxy)naphthalene

FS 3D CONCORD

MF C10 H7 F2 O2 P

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

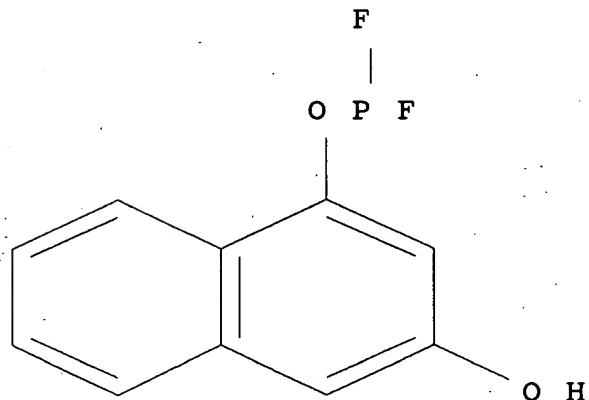
L14 ANSWER 34 OF 52

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RN 112365-81-8

CN Phosphorodifluoridous acid, 3-hydroxy-1-naphthalenyl ester (9CI)

(CA INDEX NAME)
 CN 1-(Difluorophosphinoxy)-3-hydroxynaphthalene
 FS 3D CONCORD
 MF C10 H7 F2 O2 P
 SR CA
 LC CA



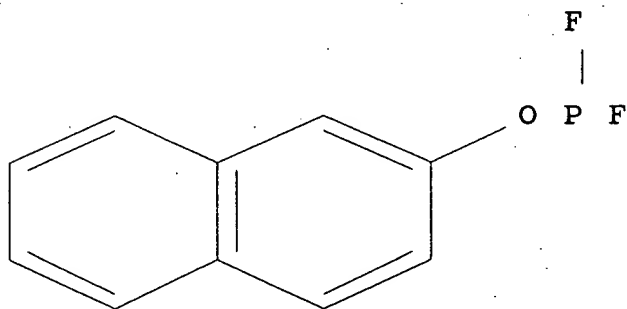
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 35 OF 52

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RN 112365-80-7
 CN Phosphorodifluoridous acid, 2-naphthalenyl ester (9CI) (CA INDEX NAME)
 CN 2-(Difluorophosphinoxy)naphthalene
 FS 3D CONCORD
 MF C10 H7 F2 O P
 SR CA
 LC CA



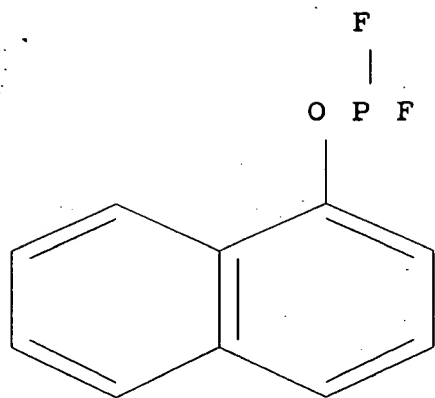
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 36 OF 52

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RN 112365-79-4
 CN Phosphorodifluoridous acid, 1-naphthalenyl ester (9CI) (CA INDEX NAME)
 CN 1-(Difluorophosphinoxy)naphthalene
 FS 3D CONCORD
 MF C10 H7 F2 O P
 SR CA
 LC CA



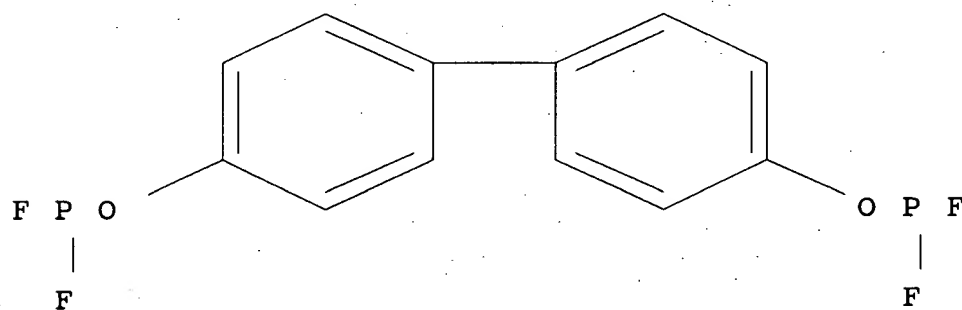
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 37 OF 52

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RN 112365-78-3
 CN Phosphorodifluoridous acid, [1,1'-biphenyl]-4,4'-diyl ester (9CI)
 (CA INDEX NAME)
 CN 4,4'-Bis(difluorophosphinoxy)biphenyl
 FS 3D CONCORD
 MF C12 H8 F4 O2 P2
 SR CA
 LC CA



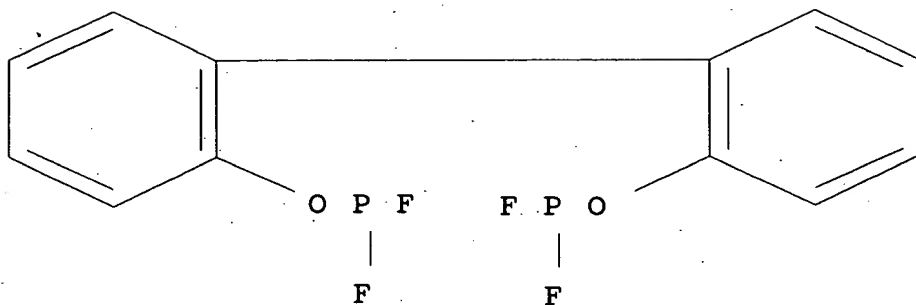
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 38 OF 52

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RN 112365-77-2
 CN Phosphorodifluoridous acid, [1,1'-biphenyl]-2,2'-diyl ester (9CI)
 (CA INDEX NAME)
 CN 2,2'-Bis(difluorophosphinoxy)biphenyl
 FS 3D CONCORD
 MF C12 H8 F4 O2 P2
 SR CA
 LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 39 OF 52

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RN 112365-76-1

CN Phosphorodifluoridous acid, 4-hydroxyphenyl ester (9CI) (CA INDEX NAME)

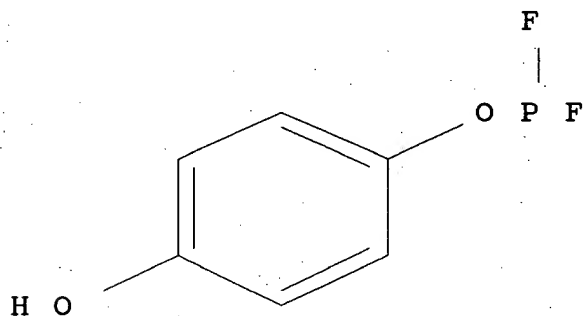
CN 1-(Difluorophosphinoxy)-4-hydroxybenzene

FS 3D CONCORD

MF C6 H5 F2 O2 P

SR CA

LC CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 40 OF 52

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RN 112365-75-0

CN Phosphorodifluoridous acid, 1,3-phenylene ester (9CI) (CA INDEX NAME)

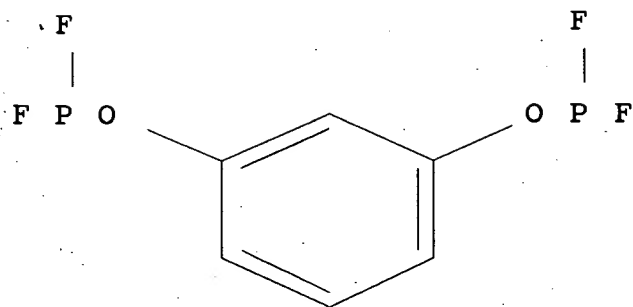
CN 1,3-Bis(difluorophosphinoxy)benzene

FS 3D CONCORD

MF C6 H4 F4 O2 P2

SR CA

LC CA



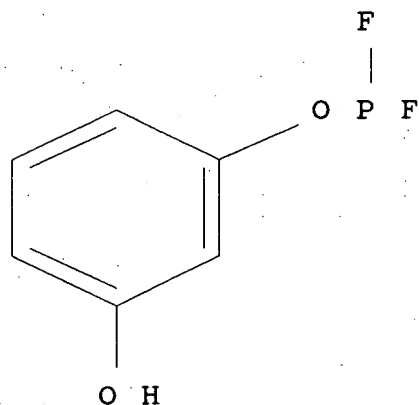
2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA111(7):57871z
 REFERENCE 2: CA108(8):67772v

L14 ANSWER 41 OF 52

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 112365-74-9
 CN Phosphorodifluoridous acid, 3-hydroxyphenyl ester (9CI) (CA INDEX NAME)
 CN 1-(Difluorophosphinoxy)-3-hydroxybenzene
 FS 3D CONCORD
 MF C6 H5 F2 O2 P
 SR CA
 LC CA



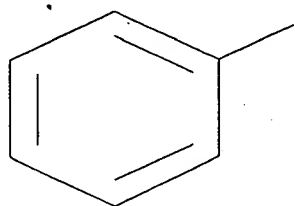
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 42 OF 52

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RN 112365-73-8
 CN Phosphorodifluoridous acid, 1,2-phenylene ester (9CI) (CA INDEX NAME)
 CN 1,2-Bis(difluorophosphinoxy)benzene
 FS 3D CONCORD
 MF C6 H4 F4 O2 P2
 SR CA
 LC CA



O P F M e



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA71(9):39083v

L14 ANSWER 45 OF 52

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RN 3965-01-3

CN Phosphorodifluoridous acid, phenyl ester (8CI, 9CI) (CA INDEX NAME)

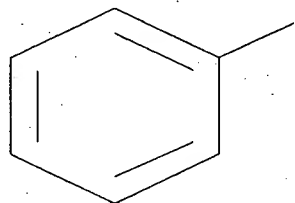
CN Difluorophenoxyphosphine

CN Phenyl phosphorodifluoridite (7CI)

FS 3D CONCORD

MF C6 H5 F2 O P

LC BEILSTEIN, CA, CAOLD, CASREACT



O P F 2

REFERENCES IN FILE CAOLD (PRIOR TO 1967)

5 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(1):6083z

REFERENCE 2: CA95(23):204055t

REFERENCE 3: CA89(24):208244c

REFERENCE 4: CA84(20):144046b

REFERENCE 5: CA78(6):35558a

L14 ANSWER 46 OF 52

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RN 1842-21-3

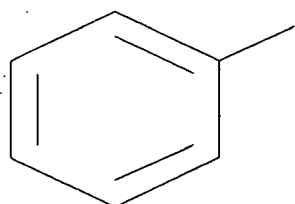
CN Phosphorofluoridous acid, isopropyl phenyl ester (8CI) (CA INDEX NAME)

CN Isopropyl phenyl phosphorofluoridite (7CI)

FS 3D CONCORD

MF C9 H12 F O2 P

LC BEILSTEIN, CAOLD



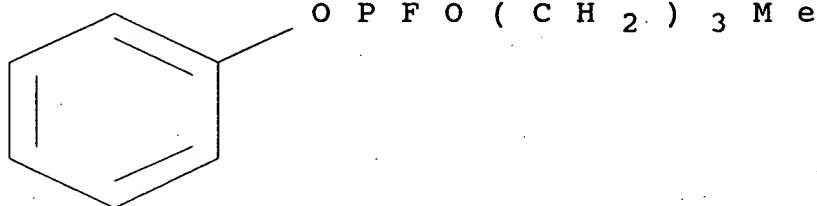
O P F O P r - i

REFERENCES IN FILE CAOLD (PRIOR TO 1967)

0 REFERENCES IN FILE CA (1967 TO DATE)

L14 ANSWER 47 OF 52
COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

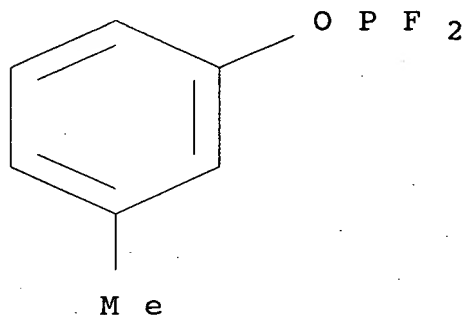
RN 1840-72-8
CN Phosphorofluoridous acid, butyl phenyl ester (8CI) (CA INDEX NAME)
CN Butyl phenyl phosphorofluoridite (7CI)
FS 3D CONCORD
MF C10 H14 F O2 P
LC BEILSTEIN, CAOLD



REFERENCES IN FILE CAOLD (PRIOR TO 1967)
0 REFERENCES IN FILE CA (1967 TO DATE)

L14 ANSWER 48 OF 52
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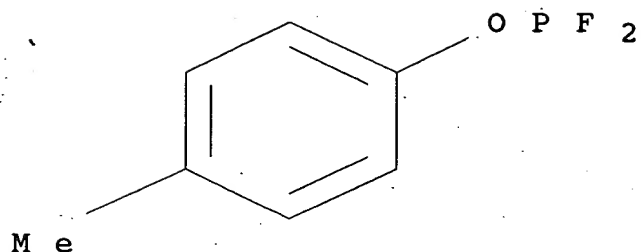
RN 1810-34-0
CN Phosphorodifluoridous acid, 3-methylphenyl ester (9CI) (CA INDEX NAME)
CN m-Tolyl phosphorodifluoridite (7CI)
FS 3D CONCORD
MF C7 H7 F2 O P
LC BEILSTEIN, CAOLD



REFERENCES IN FILE CAOLD (PRIOR TO 1967)
0 REFERENCES IN FILE CA (1967 TO DATE)

L14 ANSWER 49 OF 52
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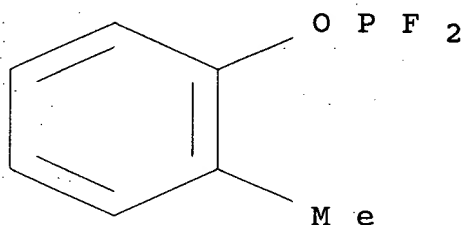
RN 1646-22-6
CN Phosphorodifluoridous acid, p-tolyl ester (8CI) (CA INDEX NAME)
CN p-Tolyl phosphorodifluoridite (7CI)
FS 3D CONCORD
MF C7 H7 F2 O P
LC BEILSTEIN, CAOLD



REFERENCES IN FILE CAOLD (PRIOR TO 1967)
 0 REFERENCES IN FILE CA (1967 TO DATE)

L14 ANSWER 50 OF 52
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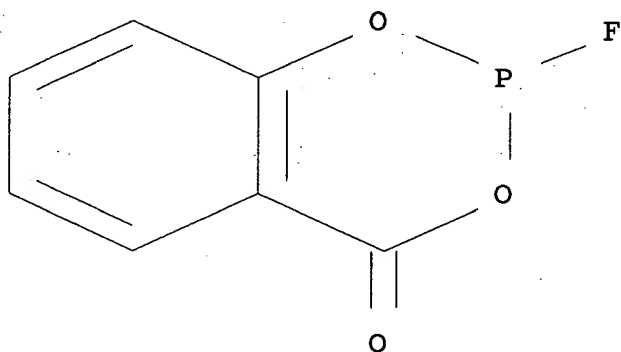
RN 1646-00-0
 CN Phosphorodifluoridous acid, o-tolyl ester (8CI) (CA INDEX NAME)
 CN o-Tolyl phosphorodifluoridite (7CI)
 FS 3D CONCORD
 DR 10011-19-5
 MF C7 H7 F2 O P
 LC BEILSTEIN, CAOLD



REFERENCES IN FILE CAOLD (PRIOR TO 1967)
 0 REFERENCES IN FILE CA (1967 TO DATE)

L14 ANSWER 51 OF 52
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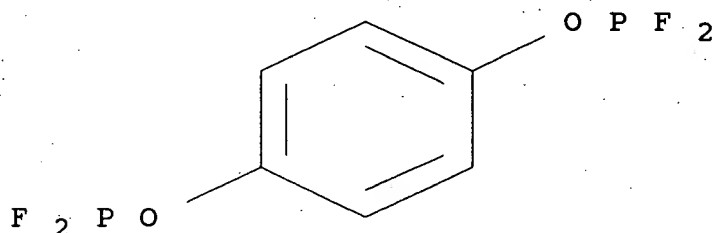
RN 1583-55-7
 CN Salicylic acid, monoanhydride with phosphorofluoridous acid, cyclic ester (8CI) (CA INDEX NAME)
 CN Salicylic acid, hydrogen phosphorofluoridite, cyclic anhydride (7CI)
 FS 3D CONCORD
 MF C7 H4 F O3 P
 LC BEILSTEIN, CAOLD



REFERENCES IN FILE CAOLD (PRIOR TO 1967)
 0 REFERENCES IN FILE CA (1967 TO DATE)

L14 ANSWER 52 OF 52
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RN 830-44-4
CN Phosphorodifluoridous acid, 1,4-phenylene ester (9CI) (CA INDEX
NAME)
CN p-Phenylene phosphorodifluoridite (7CI)
CN Phosphorodifluorous acid, p-phenylene ester (8CI)
CN 1,5-Bis(difluorophosphinoxy)benzene
FS 3D CONCORD
MF C6 H4 F4 O2 P2
LC BEILSTEIN, CA, CAOLD



REFERENCES IN FILE CAOLD (PRIOR TO 1967)
2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA111(7):57871z
REFERENCE 2: CA108(8):67772v

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=> fil ca

FILE 'CA' ENTERED AT 12:15:31 ON 23 SEP 91

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FILE COVERS 1967 - 23 Sept 91 (910923/ED) VOL 115 ISS 12.

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abstract graphic structures. The AB format DOES NOT display structure
diagrams.

=> d his 115

(FILE 'CA' ENTERED AT 12:01:10 ON 23 SEP 91)

L15 22 S L14

FILE 'REGISTRY' ENTERED AT 12:02:32 ON 23 SEP 91

FILE 'CA' ENTERED AT 12:15:31 ON 23 SEP 91

=>

=> d 1-22 bib hit

L15 ANSWER 1 OF 22

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

AN CA115(6):51133w
TI Crystalline polyolefin composition
AU Nakajima, Hirokazu

CS Chisso Corp.
 LQ Japan
 SO Eur. Pat. Appl., 185 pp.
 PI EP 416321 A1 13 Mar 1991
 DS R: BE, DE, FR, GB
 AI EP 90-115393 10 Aug 1990
 PRAI JP 89-220947 28 Aug 1989
 JP 89-320138 8 Dec 1989
 IC ICM C08K005-00
 ICS C08K013-02; C08K005-51; C08L023-02
 SC 37-6 (Plastics Manufacture and Processing)
 DT P
 CO EPXXDW
 PY 1991
 LA Eng
 OS MARPAT 115:51133
 IT 68-04-2, Sodium citrate 72-17-3, Sodium lactate 136-29-8,
 Potassium di-butyldithiocarbamate 136-30-1, Sodium
 dibutyldithiocarbamate 142-47-2, Monosodium glutamate 471-34-1,
 Calcium carbonate, uses and miscellaneous 512-25-4, Barium citrate
 532-32-1, Sodium benzoate 533-00-6, Barium benzoate 553-54-8,
 Lithium benzoate 593-29-3, Potassium stearate 822-16-2
 866-84-2, Potassium citrate 867-55-0, Lithium lactate 996-31-6,
 Potassium lactate 1309-42-8, Magnesium hydroxide 1309-48-4,
 Magnesium oxide, uses and miscellaneous 2188-25-2, Strontium
 benzoate 2492-26-4, Sodium 2-benzothiazolethiolate 2958-14-7
 4376-70-9 4384-81-0, Sodium dithiocarbamate 4485-12-5, Lithium
 stearate 6865-35-6, Barium stearate 7486-38-6, Sodium adipate
 7620-77-1, Lithium 12-hydroxyoctadecanoate 7778-70-3 7779-25-1,
 Magnesium citrate 10196-69-7, Strontium stearate 13329-67-4,
 Sodium 12-hydroxyoctadecanoate 15091-69-7, Sodium
 2-benzimidazolethiolate 15217-42-2 18621-94-8, Lithium adipate
 18917-93-6, Magnesium lactate 19147-16-1, Potassium adipate
 19473-49-5, Monopotassium glutamate 20471-51-6 21598-22-1
 21645-51-2, Aluminum hydroxide, uses and miscellaneous 22438-73-9,
 Potassium dithiocarbamate 24595-14-0, Potassium glutamate
 24994-20-5 25728-82-9, Sodium montanate 29870-99-3, Strontium
 lactate 32253-37-5, Lithium glutamate 32831-20-2 34326-46-0
 39078-87-0, Sodium monostearyl phosphate 40182-75-0, Strontium
 citrate 42975-31-5, 2-Mercaptobenzimidazole potassium salt
 51126-65-9 51568-80-0, Calcium monostearyl phosphate 54654-50-1
 54983-89-0, Barium lactate 55695-80-2, Monolithium glutamate
 56624-77-2, Calcium distearyl phosphate 58210-56-3 60178-85-0,
 Barium adipate 64309-30-4 66648-22-4, Lithium
 2-benzothiazolethiolate 69805-33-0 69882-55-9 69882-56-0
 70974-89-9, Barium monostearyl phosphate 72732-60-6, Strontium
 distearyl phosphate 85169-08-0 85210-02-2 86176-64-9,
 Strontium monostearyl phosphate 118337-09-0
 119735-73-8 119735-74-9 122757-26-0,
 2,2'-Methylenebis(4,6-di-tert-butylphenyl) fluorophosphite
 133940-41-7 133949-89-0 134699-43-7
 134947-42-5 134947-43-6 134947-44-7 134947-45-8
 (in rigid polyolefin moldings)

L15 ANSWER 2 OF 22

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AN CA114(26):248566a
 TI Crystalline polyolefin compositions with improved stiffness and heat
 deformation resistance
 AU Nakajima, Yoichi
 CS Chisso Corp.
 LO Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.
 PI JP 02300246 A2 12 Dec 1990 Heisei
 AI JP 89-121946 16 May 1989
 IC ICM C08L023-00
 ICS C08K003-00; C08K005-09; C08K005-17; C08K005-527
 SC 37-6 (Plastics Manufacture and Processing)
 DT P
 CO JKXXAF
 PY 1990
 LA Japan
 IT 56-37-1 100-97-0, Hexamethylenetetramine, uses and miscellaneous
 109-76-2D, 1,3-Diaminopropane, N-tallow derivs. 122-20-3,
 Triisopropanolamine 124-09-4, Hexamethylenediamine, uses and
 miscellaneous 124-22-1, Laurylamine 124-28-7 578-36-9
 582-25-2, Potassium benzoate 6324-73-8D, N,N-di-coco alkyl derivs.
 6736-15-8 6976-36-9 13427-80-0 16518-26-6, Potassium
 p-tert-butylbenzoate 17301-53-0, N-Docosyl-N,N,N-trimethylammonium
 chloride 18448-65-2 22208-46-4 24170-14-7 26635-92-7
 31017-83-1 40870-38-0D, N-tallow alkyl derivs. 52497-24-2
 52509-81-6 68698-64-6 94945-28-5 118337-09-0
 119735-73-8 119735-74-9 122757-26-0,
 2,2'-Methylene-bis(4,6-di-tert-butylphenyl)fluorophosphite
 133940-41-7 133949-87-8 133949-88-9
 133949-89-0 133949-90-3 134016-96-9
 (cryst. polyolefins contg., stiff, heat deformation-resistant)

L15 ANSWER 3 OF 22

COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

AN CA114(24):230313f
 TI Polyolefin containers for colored food
 AU Kosegaki, Kimiho; Onishi, Akiyoshi; Inoue, Masaru; Mori, Takashi
 CS Mitsubishi Petrochemical Co., Ltd.
 LO Japan
 SO PCT Int. Appl., 28 pp.
 PI WO 9015099 A1 13 Dec 1990
 DS W: US
 RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
 AI WO 89-JP1122 31 Oct 1989
 PRAI JP 89-135858 31 May 1989
 IC ICM C08L023-00
 ICS C08K005-16; C08K005-51
 SC 38-3 (Plastics Fabrication and Uses)
 SX 17, 37
 DT P
 CO PIXXD2
 PY 1990
 LA Japan
 IT 13598-36-2D, Phosphorous acid, arom. derivs. 31570-04-4,
 Tris(2,4-di-tert-butylphenyl) phosphite 38613-77-3 80693-00-1,
 Bis(2,6-di-tert-butyl-4-methylphenyl)pentaerythritol diphosphite
 118337-09-0 126050-54-2
 (antioxidants, polyolefin containers contg., for colored food)

L15 ANSWER 4 OF 22

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AN CA114(24):230102m
 TI Inorganic filler-containing polyolefin compositions with improved
 stiffness, elongation, and impact resistance
 AU Nakajima, Yoichi
 CS Chisso Corp.
 LO Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.
PI JP 02300248 A2 12 Dec 1990 Heisei
AI JP 89-121948 16 May 1989
IC ICM C08L023-00
ICS C08K003-00; C08K003-22; C08K003-30; C08K005-09; C08K005-37;
C08K005-47; C08K005-52; C08K005-527
SC 37-6 (Plastics Manufacture and Processing)
DT P
CO JKXXAF
PY 1990
LA Japan
IT 136-53-8, Zinc 2-ethylhexanoate 155-04-4, Zinc
2-benzothiazole-thiolate 557-05-1, Zinc stearate 593-29-3,
Potassium stearate 1072-35-1 1314-13-2, Zinc oxide, uses and
miscellaneous 1317-36-8, Lead (II) oxide, uses and miscellaneous
1332-07-6, Zinc borate 3030-80-6, Zinc 2-benzimidazole-thiolate
7446-14-2, Lead (II) sulfate 7733-02-0 12202-17-4, Tribasic lead
sulfate 34326-46-0 35674-68-1 35948-25-5 58405-97-3
63562-40-3 119735-73-8 119735-74-9
122757-26-0 133301-07-2 133301-08-3 133301-09-4
133790-36-0 133940-40-6 133940-41-7
134016-96-9
(polyolefins compns., with improved stiffness, elongation, and
impact resistance)

L15 ANSWER 5 OF 22
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AN CA114(15):143115z
TI Alkenyl succinic anhydrides process
AU Hale, Paul S.; Shin, Kju H.
CS Ethyl Corp.
LO USA
SO U.S., 6 pp.
PI US 4958034 A 18 Sep 1990
AI US 89-436072 13 Nov 1989
IC ICM C07D307-60
NCL 549255000
SC 27-6 (Heterocyclic Compounds (One Hetero Atom))
DT P
CO USXXAM
PY 1990
LA Eng
OS MARPAT 114:143115
IT 116954-20-2P 116954-21-3P 119735-70-5P
119735-72-7P 119735-73-8P
(prepn. of, as stabilizer for alkenyl succinic anhydrides)
IT 122757-26-0 132219-44-4
(stabilizer, for alkenyl succinic anhydrides)

L15 ANSWER 6 OF 22
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AN CA114(10):83235b
TI Radiation-resistant polyolefin compositions
AU Matsumura, Toru; Hondo, Akira
CS Tonen Sekiyu Kagaku K. K.
LO Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
PI JP 02153954 A2 13 Jun 1990 Heisei
AI JP 88-308477 6 Dec 1988
IC ICM C08L023-02
ICS C08K003-26; C08K005-09; C08K005-49; C08K005-54

LO USA
SQ Eur. Pat. Appl., 25 pp.
PI EP 280938 A1 7 Sep 1988
DS R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE
AI EP 88-101945 10 Feb 1988
PRAI US 87-20023 27 Feb 1987
IC ICM C07F009-146
ICS C07F009-15; C07F009-65; C08K005-51
SC 37-6 (Plastics Manufacture and Processing)
DT P
CO EPXXDW
PY 1988
LA Eng
OS MARPAT 110:136356
IT 13537-32-1D, Phosphorofluoridic acid, salts 118337-09-0
119735-69-2 119735-70-5 119735-71-6
119735-72-7 119735-73-8 119735-74-9
(antioxidants, for polypropylene)

his own

L15 ANSWER 15 OF 22
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AN CA108(8):67772v
TI Instant ligands. Part 2. Preparation of some bidentate ligands containing PF2O groups from aromatic hydroxy compounds, and their reactions to form molybdenum and tungsten complexes
AU Bell, Graeme A.; Rankin, David W. H.; Reinisch, Paul F.
CS Dep. Chem., Univ. Edinburgh
LO Edinburgh EH9 3JJ, UK
SO J. Chem. Soc., Dalton Trans., (12), 3023-7
SC 78-7 (Inorganic Chemicals and Reactions)
SX 29
DT J
CO JCDBTI
IS 0300-9246
PY 1987
LA Eng
OS CJRSC
IT 112365-74-9P, 1-(Difluorophosphinoxy)-3-hydroxybenzene
112365-76-1P, 1-(Difluorophosphinoxy)-4-hydroxybenzene
(prepn. and multinuclear NMR and reaction of tungsten-coordinated, with difluorophosphino sulfide)
IT 830-44-4P, 1,5-Bis(difluorophosphinoxy)benzene
112365-73-8P, 1,2-Bis(difluorophosphinoxy)benzene
112365-75-0P, 1,3-Bis(difluorophosphinoxy)benzene
112365-77-2P, 2,2'-Bis(difluorophosphinoxy)biphenyl
112365-78-3P, 4,4'-Bis(difluorophosphinoxy)biphenyl
112365-79-4P, 1-(Difluorophosphinoxy)naphthalene
112365-80-7P, 2-(Difluorophosphinoxy)naphthalene
112365-81-8P, 1-(Difluorophosphinoxy)-3-hydroxynaphthalene
112365-82-9P, 1-Hydroxy-3-(difluorophosphinoxy)naphthalene
112365-83-0P, 1,4-Bis(difluorophosphinoxy)naphthalene
112365-84-1P, 1,5-Bis(difluorophosphinoxy)naphthalene
112365-85-2P, 1-(Difluorophosphinoxy)-7-hydroxynaphthalene
112365-86-3P, 1-Hydroxy-7-(difluorophosphinoxy)naphthalene
112365-87-4P, 1,7-Bis(difluorophosphinoxy)naphthalene
112365-88-5P, 2,3-Bis(difluorophosphinoxy)naphthalene
112365-89-6P, 2,6-Bis(difluorophosphinoxy)naphthalene
112365-90-9P, 2,7-Bis(difluorophosphinoxy)naphthalene
112365-91-0P 112397-56-5P 112397-57-6P
112397-58-7P 112397-59-8P 112397-60-1P
112397-61-2P 112397-62-3P 112397-63-4P 112397-64-5P
112397-65-6P 112397-66-7P 112397-67-8P 112397-68-9P



112397-69-0P 112397-70-3P 112418-43-6P 112418-44-7P
112418-45-8P 112418-46-9P 112418-47-0P 112418-48-1P
112418-49-2P 112438-04-7P **112518-26-0P**,
1,3-Bis(difluorophosphinoxy)naphthalene
(prepn. and multinuclear NMR of)

L15 ANSWER 16 OF 22

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AN CA108(1):6083z
TI Synthesis of fluoro-.lambda.5-monophosphazenes and
fluoro-1,3-diaza-2.lambda.5,4.lambda.5-diphosphetidines by means of
the Staudinger reaction
AU Riesel, L.; Sturm, D.; Nagel, A.; Taudien, S.; Beuster, A.;
Karwatzki, A.
CS Sekt. Chem., Humboldt-Univ.
LO Berlin DDR-1040, Ger. Dem. Rep.
SO Z. Anorg. Allg. Chem., 542, 157-66
SC 29-7 (Organometallic and Organometalloidal Compounds)
SX 22
DT J
CO ZAACAB
IS 0044-2313
PY 1986
LA Ger
OS CASREACT 108:6083
IT 363-84-8 660-67-3 693-00-5 814-97-1,
Difluorodimethylaminophosphine 932-75-2,
Difluoromorpholinophosphine 938-82-9 1073-52-5,
Difluoropiperidinophosphine **3965-01-3** 10568-62-4
91675-80-8 111670-82-7 111670-87-2 111670-88-3
(kinetics of Staudinger reaction of, with phenylazides)

L15 ANSWER 17 OF 22

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AN CA95(23):204055t
TI Fluorinated organoelements: oxidative liquid-phase direct
fluorination. X. Organyloxyfluorophosphoranes: direct synthesis
by F2-addition to phosphinic, phosphonic, and phosphoric acid ester
(fluorides) and thermolytical behavior
AU Ruppert, I.
CS Inst. Anorg. Chem., Univ. Bonn
LO Bonn D-5300, Fed. Rep. Ger.
SO Z. Anorg. Allg. Chem., 477, 59-70
SC 29-7 (Organometallic and Organometalloidal Compounds)
DT J
CO ZAACAB
IS 0044-2313
PY 1981
LA Ger
IT 101-02-0 121-45-9 1800-59-5 2946-61-4 **3965-01-3**
4020-99-9 13410-61-2 38316-42-6 76943-19-6
(fluorination of)

*noted
+
provided*

L15 ANSWER 18 OF 22

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AN CA89(24):208244c
TI Evidence from nuclear magnetic resonance for a cis-form of a neutral
halide-bridged platinum(II) complex, di-.mu.-iodo-
bis[(fluorodiphenoxyphosphine)iodoplatinum(II)]
AU Crocker, Christopher; Goggin, Peter L.

CS Dep. Inorg. Chem., Univ. Bristol
LQ Bristol, Engl.
SO J. Chem. Res. (S), (3), 93
SC 78-7 (Inorganic Chemicals and Reactions)
SX 73
DT J
CO JRPSDC
PY 1978
LA Eng
IT 3965-01-3
(reaction of, with palladium diiodide)

L15 ANSWER 19 OF 22
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AN CA84(25):179796y
TI Synthesis of pentafluorophenoxy derivatives of phosphorus in various oxidation states
AU Falardeau, E. R.; Desmarteau, D. D.
CS Dep. Chem., Kansas State Univ.
LO Manhattan, Kans., USA
SO J. Fluorine Chem., 7(1-3), 185-94
SC 25-10 (Noncondensed Aromatic Compounds)
DT J
CO JFLCAR
PY 1976
LA Eng
IT 59617-41-3P 59617-42-4P 59617-43-5P 59617-44-6P
59646-78-5P
(prepn. of)

L15 ANSWER 20 OF 22
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AN CA84(20):144046b
TI Fluorophosphonate and alkoxy- and aroxy-fluorophosphine complexes of platinum(II) and palladium(II). Part II. Reactions of complexes of tertiary amines with alkoxy- and aroxy-difluorophosphines
AU Grosse, Juergen; Schmutzler, Reinhard
CS Lehrstuhl Anorg. Chem., Tech. Univ.
LO Brunswick, Ger.
SO J. Chem. Soc., Dalton Trans., (5), 412-17
SC 78-7 (Inorganic Chemicals and Reactions)
DT J
CO JC DTBI
PY 1976
LA Eng
IT 693-00-5 820-61-1 3965-01-3
(reactions of, with palladium and platinum amine complexes)

L15 ANSWER 21 OF 22
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AN CA78(6):35558a
TI Magnetic study (Faraday effect, susceptibility, NMR) of complexes of the $Ni[P(OPH)_3-xFx]_4$ and $Ni[PPH_3-xFx]_4$ type
AU Micoud, M. H.; Savariault, J. M.; Cassoux, P.
CS Lab. Chim. Coord., CNRS
LO Toulouse, Fr.
SO Bull. Soc. Chim. Fr., (10), 3774-82
SC 72-1 (Magnetic Phenomena)
DT J
CO BSCFAS

PY 1972
LA Fr
YT 101-02-0 603-35-0 657-97-6 1800-59-5 3965-01-3
7783-55-3 13859-65-9 13987-00-3 14221-00-2 15977-41-0
20472-53-1 41264-94-2
(magnetic and magnetooptical properties of)

L15 ANSWER 22 OF 22
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AN CA71(9):39083v
TI Alkylfluorophosphonites
AU Kulakova, V. N.; Zinov'ev, Yu. M.; Soborovskii, L. Z.
LO USSR
SO Zh. Obshch. Khim., 39(3), 579-82
SC 29 (Organometallic and Organometalloidal Compounds)
DT J
CO ZOKHA4
PY 1969
LA Russ
IT 20337-67-1P 20337-69-3P 22788-91-6P 22788-92-7P
22788-93-8P 22794-04-3P 22794-06-5P 22794-07-6P 22794-09-8P
22794-10-1P
(prepn. of)

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=> d 1-4

L16 ANSWER 1 OF 4
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AN CA63:1371g
IT 363-84-8 693-00-5 765-40-2 814-97-1 820-61-1
830-44-4 1073-52-5 1526-24-5 1704-10-5 1735-82-6 3964-95-2
3965-00-2 3965-01-3

L16 ANSWER 2 OF 4
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AN CA60:15758e
IT 693-00-5 1644-04-8 1646-00-0 1646-22-6 1810-34-0
1840-72-8 1842-21-3 2585-72-0 3965-01-3 10011-19-5

L16 ANSWER 3 OF 4
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AN CA59:15162h
IT 765-40-2 1526-24-5 1583-55-7 3965-01-3

L16 ANSWER 4 OF 4
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AN CA59:15162g
IT 693-00-5 820-61-1 830-44-4 871-34-1 3964-95-2

SC 37-6 (Plastics Manufacture and Processing)
SX 7, 63
DT P
CO JKXXAF
PY 1990
LA Japan
IT 26741-53-7, Ultrinox 626 31570-04-4, Irgafos 168 38613-77-3,
Sanduvor P-EPQ 80693-00-1, Mark PEP 36 118337-09-0
(radiation stabilizers, polyolefins contg., for medical
instruments and food packaging)

L15 ANSWER 7 OF 22
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AN CA114(10):83234a
TI Radiation-resistant polyolefin compositions
AU Matsumura, Toru; Hondo, Akira
CS Tonen Sekiyu Kagaku K. K.
LO Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
PI JP 02153953 A2 13 Jun 1990 Heisei
AI JP 88-308476 6 Dec 1988
IC ICM C08L023-02
ICS C08K003-26; C08K005-09; C08K005-17; C08K005-524
SC 37-6 (Plastics Manufacture and Processing)
SX 17, 63
DT P
CO JKXXAF
PY 1990
LA Japan
IT 52829-07-9, Sanol LS 770 65447-77-0, Tinuvin 622LD 71878-19-8,
Chimassorb 944LD 90751-07-8, Cyasorb UV 3346 118337-09-0
122177-25-7, Chimassorb 119FL
(radiation stabilizers, polyolefins contg., for medical
instruments and food packaging)

L15 ANSWER 8 OF 22
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AN CA113(26):232774k
TI Antiyellowing agents for polycarbonates
AU Babillis, Robert Charles; Martin, Stanley Vernon; Reed, Randall Alan
CS General Electric Co.
LO USA
SO Eur. Pat. Appl., 7 pp.
PI EP 377108 A1 11 Jul 1990
DS R: DE, FR, GB, IT, NL
AI EP 89-121605 23 Nov 1989
PRAI US 88-292165 30 Dec 1988
IC ICM C08K005-51
ICS C08L069-00
SC 37-6 (Plastics Manufacture and Processing)
SX 28
DT P
CO EPXXDW
PY 1990
LA Eng
IT 118337-09-0
(yellowing inhibitor, for polycarbonates)

4,963,144
524 118

L15 ANSWER 9 OF 22
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AN CA113(10):79882x
TI Polyolefin compositions with good thermal degradation resistance
AU Kosegaki, Kimiho; Sobashima, Yoshihiro; Mori, Takashi
CS Mitsubishi Petrochemical Co., Ltd.
LO Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
PI JP 02067343 A2 7 Mar 1990 Heisei
AI JP 88-215229 31 Aug 1988
IC ICM C08L023-02
ICS C08K003-00; C08K005-51
SC 37-6 (Plastics Manufacture and Processing)
DT P
CO JKXXAF
PY 1990
LA Japan
OS MARPAT 113:79882
IT 118337-09-0
(antioxidants, for filled polyolefins)

L15 ANSWER 10 OF 22
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AN CA113(7):59535h
TI Process for transhalogenating a halophosphorus compound with
hydrogen fluoride
AU Burt, Edward Angus; Burton, Lester Percy J.; Stahly, Barbara Clack
CS Ethyl Corp.
LO USA
SO Eur. Pat. Appl., 8 pp.
PI EP 357048 A2 7 Mar 1990
DS R: CH, DE, FR, GB, IT, LI
AI EP 89-116023 30 Aug 1989
PRAI US 88-239409 1 Sep 1988
IC ICM C07B039-00
ICS C07F009-146; C07F009-6574
SC 29-7 (Organometallic and Organometalloidal Compounds)
DT P
CO EPXXDW
PY 1990
LA Eng
OS MARPAT 113:59535
IT 118337-09-0P
(prepn. of)

L15 ANSWER 11 OF 22
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AN CA111(23):214703r
TI Process for transhalogenating a halophosphorus compound with
fluoride
AU Burton, Lester Percy J.; Ao, Meng Sheng
CS Ethyl Corp.
LO USA
SO Eur. Pat. Appl., 7 pp.
PI EP 312790 A2 26 Apr 1989
DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 88-115508 21 Sep 1988
PRAI US 87-110198 19 Oct 1987
IC ICM C07F009-146
ICS C07F009-14; C07F009-20
SC 29-7 (Organometallic and Organometalloidal Compounds)
DT P
CO EPXXDW

PY 1989
LA Eng
OS MARPAT 111:214703
IT 118337-09-0P
(prepn. of)

L15 ANSWER 12 OF 22
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AN CA111(16):135394n
TI Aqueous suspensions of aryl fluorophosphite antioxidants
AU Burton, Lester Percy J.; Blumberg, Morris
CS Ethyl Corp.
LO USA
SO Eur. Pat. Appl., 6 pp.
PI EP 301355 A2 1 Feb 1989
DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 88-111534 18 Jul 1988
PRAI US 87-78200 27 Jul 1987
IC ICM C08K005-51
ICS D06M013-26
SC 37-6 (Plastics Manufacture and Processing)
SX 25, 38, 40, 43
DT P
CO EPXXDW
PY 1989
LA Eng
OS MARPAT 111:135394
IT 119735-69-2, Bis(2,6-di-tert-butylphenyl)fluorophosphite
119735-70-5, Bis(2,4-di-tert-butylphenyl)fluorophosphite
122757-25-9, 2,2'-Ethylidenebis(4,6-di-tert-butylphenyl)fluorophosphite 122757-26-0,
2,2'-Methylenebis(4,6-di-tert-butylphenyl)fluorophosphite
(antioxidants, aq. dispersions of)

L15 ANSWER 13 OF 22
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AN CA111(7):57871z
TI Instant ligands. Part 3. Determination by electron diffraction of the molecular structures of 1,3-C6H4(OPF2)2 and 1,4-C6H4(OPF2)2 in the gas phase
AU Bell, Graeme A.; Rankin, David W. H.; Robertson, Heather E.
CS Dep. Chem., Univ. Edinburgh
LO Edinburgh EH9 3JJ, UK
SO J. Mol. Struct., 178, 243-53
SC 29-7 (Organometallic and Organometalloidal Compounds)
SX 22
DT J
CO JMOSB4
IS 0022-2860
PY 1988
LA Eng
IT 830-44-4 112365-75-0
(mol. structure of, in gas phase)

L15 ANSWER 14 OF 22
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AN CA110(16):136356t
TI Antioxidant aromatic fluorophosphites
AU Burton, Lester Percy J.
CS Ethyl Corp.

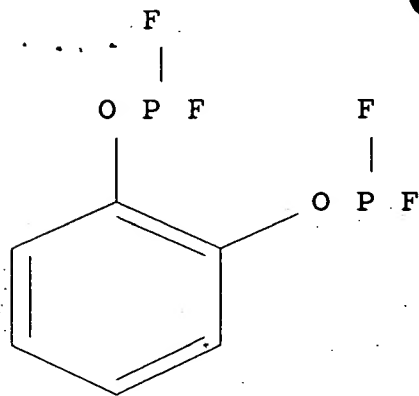
=US
4 867907

252/400

524/118

558/

558/158



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA108(8):67772v

L14 ANSWER 43 OF 52

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RN 59646-78-5

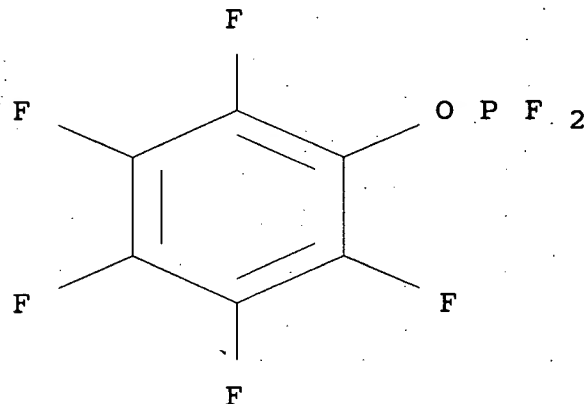
CN Phosphorodifluoridous acid, pentafluorophenyl ester (9CI) (CA INDEX NAME)

CN Difluoro(pentafluorophenoxy)phosphine

FS 3D CONCORD

MF C6 F7 O P

LC BEILSTEIN, CA



←
Excluded.

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA84(25):179796y

L14 ANSWER 44 OF 52

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RN 22788-91-6

CN Phosphonofluoridous acid, methyl-, phenyl ester (8CI) (CA INDEX NAME)

FS 3D CONCORD

MF C7 H8 F O P

LC BEILSTEIN, CA

L15 ANSWER 15 OF 22
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AN CA108(8):67772v
TI Instant ligands. Part 2. Preparation of some bidentate ligands containing PF2O groups from aromatic hydroxy compounds, and their reactions to form molybdenum and tungsten complexes
AU Bell, Graeme A.; Rankin, David W. H.; Reinisch, Paul F.
CS Dep. Chem., Univ. Edinburgh
LO Edinburgh EH9 3JJ, UK
SO J. Chem. Soc., Dalton Trans., (12), 3023-7
SC 78-7 (Inorganic Chemicals and Reactions)
SX 29
DT J
CO JCDTBI
IS 0300-9246
PY 1987
LA Eng
OS CJRSC
IT 112365-74-9P, 1-(Difluorophosphinoxy)-3-hydroxybenzene
112365-76-1P, 1-(Difluorophosphinoxy)-4-hydroxybenzene
(prepn. and multinuclear NMR and reaction of tungsten-coordinated, with difluorophosphino sulfide)
IT 830-44-4P, 1,5-Bis(difluorophosphinoxy)benzene
112365-73-8P, 1,2-Bis(difluorophosphinoxy)benzene
112365-75-0P, 1,3-Bis(difluorophosphinoxy)benzene
112365-77-2P, 2,2'-Bis(difluorophosphinoxy)biphenyl
112365-78-3P, 4,4'-Bis(difluorophosphinoxy)biphenyl
112365-79-4P, 1-(Difluorophosphinoxy)naphthalene
112365-80-7P, 2-(Difluorophosphinoxy)naphthalene
112365-81-8P, 1-(Difluorophosphinoxy)-3-hydroxynaphthalene
112365-82-9P, 1-Hydroxy-3-(difluorophosphinoxy)naphthalene
112365-83-0P, 1,4-Bis(difluorophosphinoxy)naphthalene
112365-84-1P, 1,5-Bis(difluorophosphinoxy)naphthalene
112365-85-2P, 1-(Difluorophosphinoxy)-7-hydroxynaphthalene
112365-86-3P, 1-Hydroxy-7-(difluorophosphinoxy)naphthalene
112365-87-4P, 1,7-Bis(difluorophosphinoxy)naphthalene
112365-88-5P, 2,3-Bis(difluorophosphinoxy)naphthalene
112365-89-6P, 2,6-Bis(difluorophosphinoxy)naphthalene
112365-90-9P, 2,7-Bis(difluorophosphinoxy)naphthalene
112365-91-0P 112397-56-5P 112397-57-6P
112397-58-7P 112397-59-8P 112397-60-1P
112397-61-2P 112397-62-3P 112397-63-4P 112397-64-5P
112397-69-0P 112397-70-3P 112418-43-6P 112418-44-7P
112418-45-8P 112418-46-9P 112418-47-0P 112418-48-1P
112418-49-2P 112438-04-7P 112518-26-0P,
1,3-Bis(difluorophosphinoxy)naphthalene
(prepn. and multinuclear NMR of)

L15 ANSWER 16 OF 22
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AN CA108(1):6083z
TI Synthesis of fluoro- λ^5 -monophosphazenes and fluoro-1,3-diaza-2. λ^5 ,4. λ^5 -diphosphetides by means of the Staudinger reaction
AU Riesel, L.; Sturm, D.; Nagel, A.; Taudien, S.; Beuster, A.; Karwatzki, A.
CS Sekt. Chem., Humboldt-Univ.
LO Berlin DDR-1040, Ger. Dem. Rep.
SO Z. Anorg. Allg. Chem., 542, 157-66
SC 29-7 (Organometallic and Organometalloidal Compounds)
SX 22
DT J
CO ZAACAB
IS 0044-2313
PY 1986
LA Ger
OS CASREACT 108:6083
IT 363-84-8 660-67-3 693-00-5 814-97-1,
Difluorodimethylaminophosphine 932-75-2,
Difluoromorpholinophosphine 938-82-9 1073-52-5,
Difluoropiperidinophosphine 3965-01-3 10568-62-4
91675-80-8 111670-82-7 111670-87-2 111670-88-3
(kinetics of Staudinger reaction of, with phenylazides)

L15 ANSWER 17 OF 22
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AN CA95(23):204055t

L15 ANSWER 15 OF 22
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AN CA108(8):67772V
TI Instant ligands. Part 2. Preparation of some bidentate ligands containing PF₂O groups from aromatic hydroxy compounds, and their reactions to form molybdenum and tungsten complexes
AU Bell, Graeme A.; Rankin, David W. H.; Reinisch, Paul F.
CS Dep. Chem., Univ. Edinburgh
LO Edinburgh EH9 3JJ, UK
SO J. Chem. Soc., Dalton Trans., (12), 3023-7
SC 78-7 (Inorganic Chemicals and Reactions)
SX 29
DT J
CO JCDBI
IS 0300-9246
PY 1987
LA Eng
OS CJRSC
IT 112365-74-9P, 1-(Difluorophosphinoxy)-3-hydroxybenzene
112365-76-1P, 1-(Difluorophosphinoxy)-4-hydroxybenzene
(prepn. and multinuclear NMR and reaction of tungsten-coordinated, with difluorophosphino sulfide)
IT 830-44-4P, 1,5-Bis(difluorophosphinoxy)benzene
112365-73-8P, 1,2-Bis(difluorophosphinoxy)benzene
112365-75-0P, 1,3-Bis(difluorophosphinoxy)benzene
112365-77-2P, 2,2'-Bis(difluorophosphinoxy)biphenyl
112365-78-3P, 4,4'-Bis(difluorophosphinoxy)biphenyl
112365-79-4P, 1-(Difluorophosphinoxy)naphthalene
112365-80-7P, 2-(Difluorophosphinoxy)naphthalene
112365-81-8P, 1-(Difluorophosphinoxy)-3-hydroxynaphthalene
112365-82-9P, 1-Hydroxy-3-(difluorophosphinoxy)naphthalene
112365-83-0P, 1,4-Bis(difluorophosphinoxy)naphthalene
112365-84-1P, 1,5-Bis(difluorophosphinoxy)naphthalene
112365-85-2P, 1-(Difluorophosphinoxy)-7-hydroxynaphthalene
112365-86-3P, 1-Hydroxy-7-(difluorophosphinoxy)naphthalene
112365-87-4P, 1,7-Bis(difluorophosphinoxy)naphthalene
112365-88-5P, 2,3-Bis(difluorophosphinoxy)naphthalene
112365-89-6P, 2,6-Bis(difluorophosphinoxy)naphthalene
112365-90-9P, 2,7-Bis(difluorophosphinoxy)naphthalene
112365-91-0P 112397-56-5P 112397-57-6P
112397-58-7P 112397-59-8P 112397-60-1P
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112397-69-0P 112397-70-3P 112418-43-6P 112418-44-7P
112418-45-8P 112418-46-9P 112418-47-0P 112418-48-1P
112418-49-2P 112438-04-7P 112518-26-0P,
1,3-Bis(difluorophosphinoxy)naphthalene
(prepn. and multinuclear NMR of)

L15 ANSWER 16 OF 22
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AN CA108(1):6083z
TI Synthesis of fluoro-.lambda.5-monophosphazenes and fluoro-1,3-diaza-2.lambda.5,4.lambda.5-diphosphetidines by means of the Staudinger reaction
AU Riesel, L.; Sturm, D.; Nagel, A.; Taudien, S.; Beuster, A.; Karwatzki, A.
CS Sek. Chem., Humboldt-Univ.
LO Berlin DDR-1040, Ger. Dem. Rep.
SO Z. Anorg. Allg. Chem., 542, 157-66
SC 29-7 (Organometallic and Organometalloidal Compounds)
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Difluorodimethylaminophosphine 932-75-2,
Difluoromorpholinophosphine 938-82-9 1073-52-5,
Difluoropiperidinophosphine 3965-01-3 10568-62-4
91675-80-8 111670-82-7 111670-87-2 111670-88-3
(Kinetics of Staudinger, reaction of, with phenylazides)

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AN CA95(23):204055t